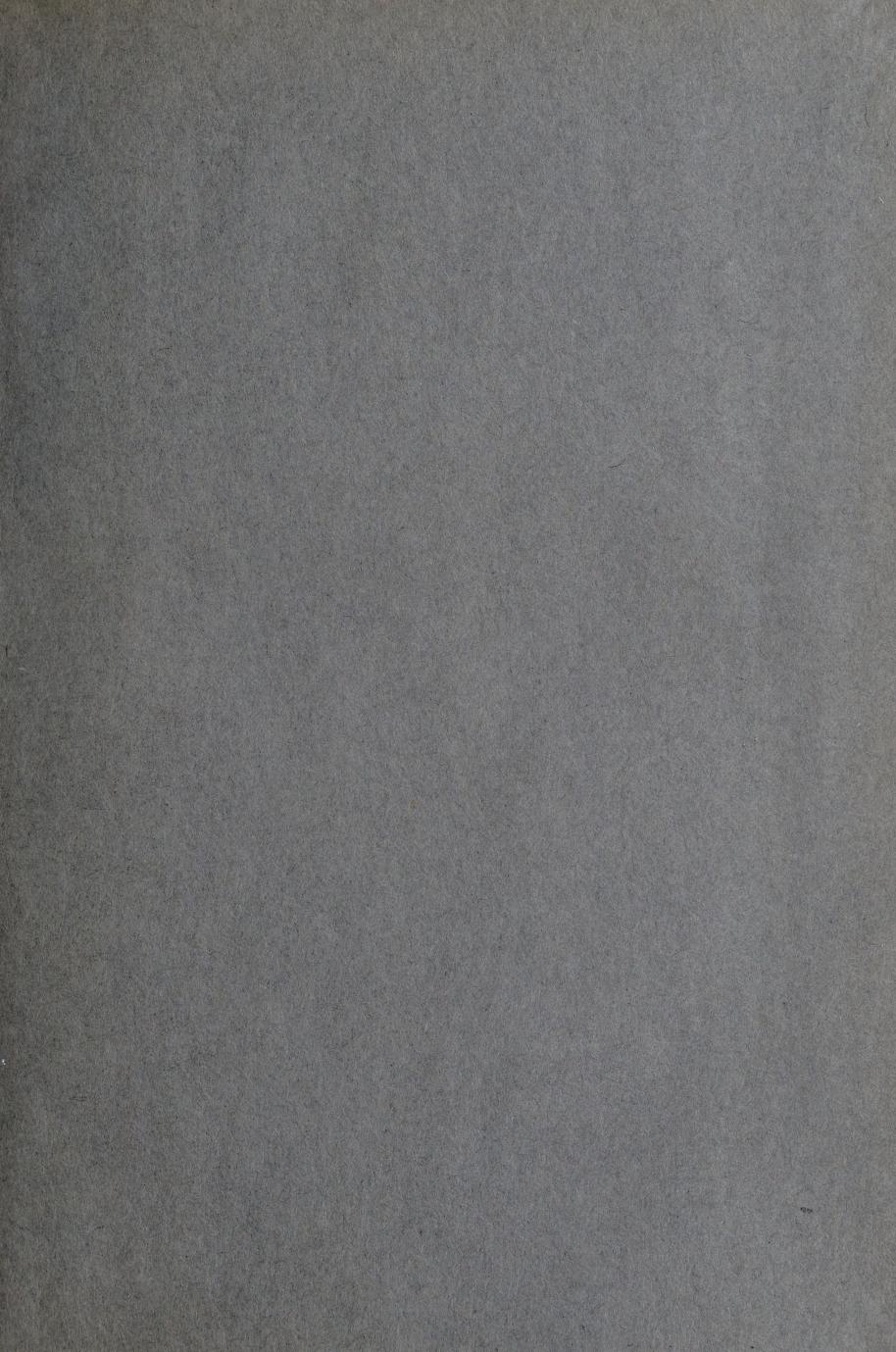
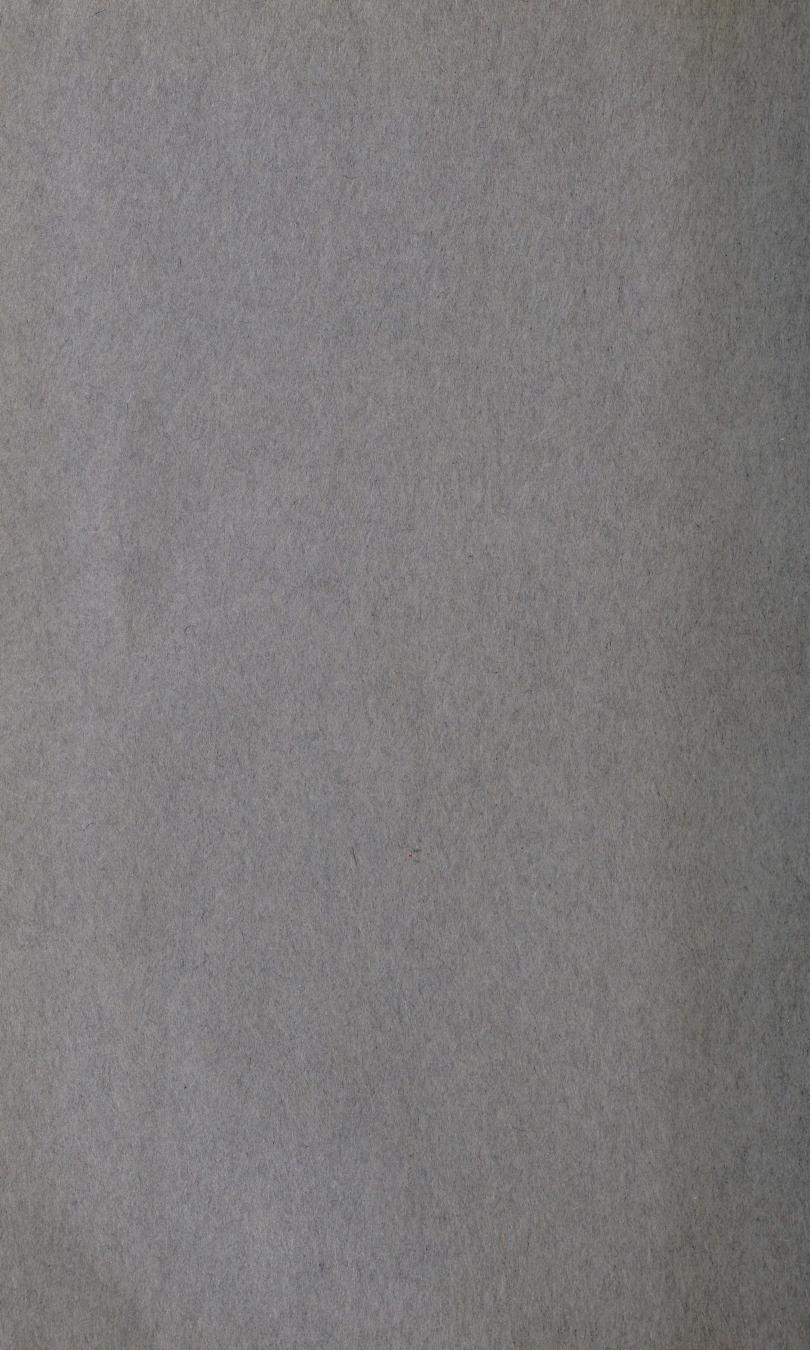
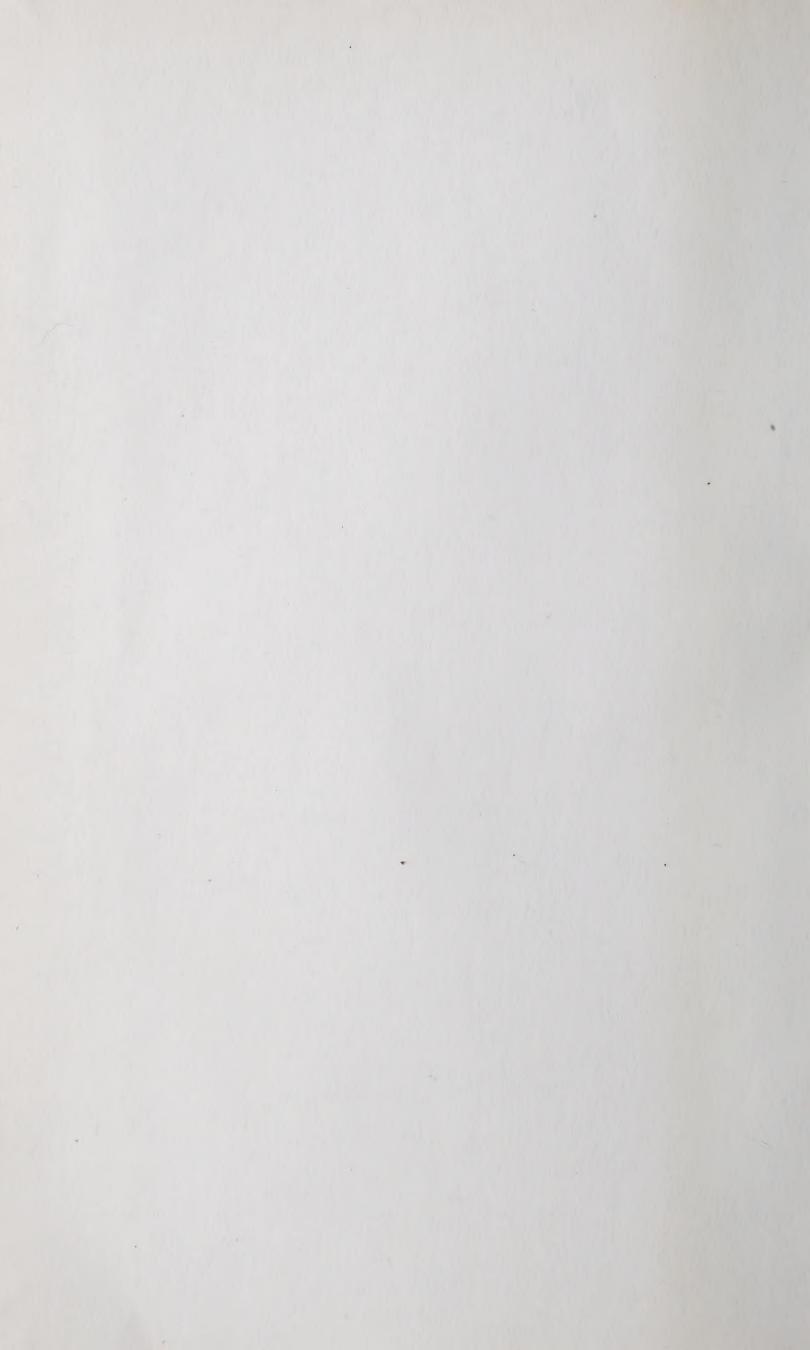


UNIVERSITY OF CALIFORNIA MUSEUM OF VERTEBRATE ZOOLOGY





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Edge, E.R. Nevada: Mineral, Landen, Lyon Cos. 1934



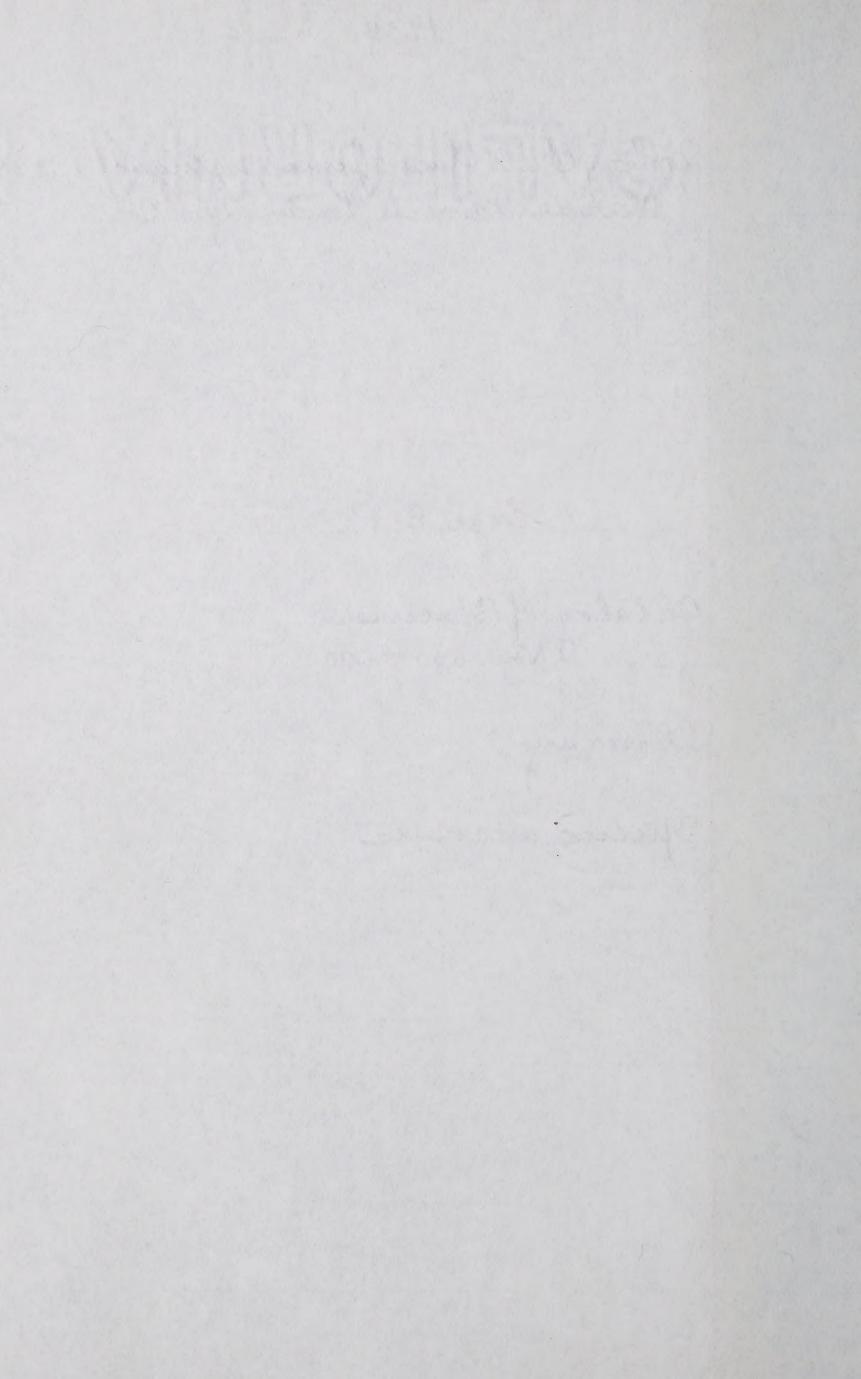
Zoology Field Class: June 27-August 1, 1934 Nevada: Mineral, Lander Elyon Cos.

Edge, E. R.

Catalog of Specimens Nos. 500 - 620

Itinerary

Species accounts



Patalogue 2 mi. 5W Pino Grove, 7250 Rt., Mineral Co., New. une 28 1934 500 & P. maniewatus 164-71-20-19=94.2 gms 4enel. 11m.m. 501 8 11 163-64-20-20=21.8 gm. sents Edge 502 & Callos parmophilus lateralis 223-79-40-18=103 gm. 503 7 Entamias quadribitattus 195-84-29-21=43.5 gms 504 & West. Tanager June 29, 1934 ppx 309m. 505 9 P. Truei 165-81-23-26=20.3 2m. 506 9 P. Maniculatus 153-62-20-19=26.8 gm 4 ent. 18 mm. 507 7 P. Maniculature 173-73-20-18-21.8 508 & P. " 161-72-20-18 = 20.3 gm 509 & P. 11 157-69-20-19-20.0gm 510 & Green lail lowher 38.3 gms. June 30, 1934 511 9 Perog. parvus 172-93-24-8=16.0gm 8emb 2mm 512 9 11 164-85-23-8=140gm - Sent to Edge 513 & P. Mansceratus 143-63-21-18=16.29ms. 514 8 11 11 164-70-21-19=22 gms

518 9 " 154 69 24-19=16.8 gms

Sent to Edge

510 9 Juneo 13.6 gm. 518 2 Thomomys quadratus 178-52-26-6=55.5 gms. 519 8 levas right Hawk 60.8 gms. 12 mi. 5 youngton, 4600 ft., W. Waller R., Lyon Co., New. 8 Hours frich 20.5 gm.



Catalogue Loos + 12 mi. S yerington, 4600 ft., W. Walker R., Lyon O., New. 521 R. megalotis - 138-67-18-15= 11.7 522 P. truei - 183-86-25.26=30.7gm. 523 glerog. formosus -180-101-23-11=16,9 gms-524 & Perog Romosus - 174-95-23-10=16.4 gms. 525 & House Rinch 28.8 gms.
526 P. Printers 171-87-20-20=16.3 gms. Sent to Edge 527 1. Maniewatus - 150-61-20-19-16.3 gms. 528 9 P. crimitus 150-76-20-19=14.6 gm. July 3, 1934 529 & Wellow Warbler & 9 gms. Sent to Edge 530 & Phranica atus - 163-68-20-18-22,29 mm 537 8 P. Jonnosus - 176-99-24-10-15.7 gms. 537 8 P. Manuenestus - 146-56-20-18-15.5 gms. 533 & R megalatis-136-62-17-15-11.1gms-534 P R ruegalotis 13263-17-18-10.5 gms-5358 Mourning dove - 117.3 ams -July 4, 1934 531 9 " " 223-119-38-12-40,2 grow. 223-119-38-12-40,2 gms. 538 F R megalotis - 143-70-16-14=12.7gm 5 ent 3 mm 539 9 11 11 141-64-17-15 10.8 gms 4 emb 1 mm.

113/4 mi 8 + 23/4 mi, E Newyton 4650 ft, Mason Valley, New,

540 8 Dits od omys merriami - 215-122-35-13-32.0 gms.

541 9 Perog. longmentis 135-72-18-7=7.8 gms. 5 emb-2 mm

5112 8 4 137-73-18-7=7.8 gms. Sent to Edge



Patalogue Mason valley. July 1 113/4 der 23/4 mi E. Merington, 4650ft, Lyon Co., New. 5437 Merodopodops pallidus - 155-84-24-9-13,9 gms. 544 & "163-88-25-10-14.3 gms. 163-88-25-10-14.3gms 157-83-25-10=13.5gms 5459 11 5468 11 168-86-26-11-14.3gns-5477 Block throated Spanow- 14.29 ms. C. vely 5, 1934 102 mi & Gerington, 4500 ft., Whalker River new. 548 B Redwing blacklind 63. Samo -5493 W. Bluelind -27.5 gur. 550 & Lazuli Bunting 551 & Maryland Wellow Throat 13.7 gms. 10.0 gms. 552 & Dovarman & Farrow 553 & West Rolin 18200000 82.0 grus kullonly - 5548 D. Calif. desertions 571-571-70-120-127= 2004.4ams. 5553 Marsh Wren ggron-5568 Spoted Towher-37.6gms 5878 arbanses hughind 29.7 gus. 5889 W. Meadow lark-88.5 gms. 64.3 gms. 132.0 gms. 559 & Red wing Glackburd 560 9? Rid Shapted Glicker 12 mi Syempton 4600ft W Walker R., Lyon Co, Nev. 12gus 5619 Trail! Fly catcher July 8, 1934.

5626 1. Maniculatur - 152-61-21-18=20.0 gpms 5638 Perog. lorignmentris 130-73-19-6=9.8 gms

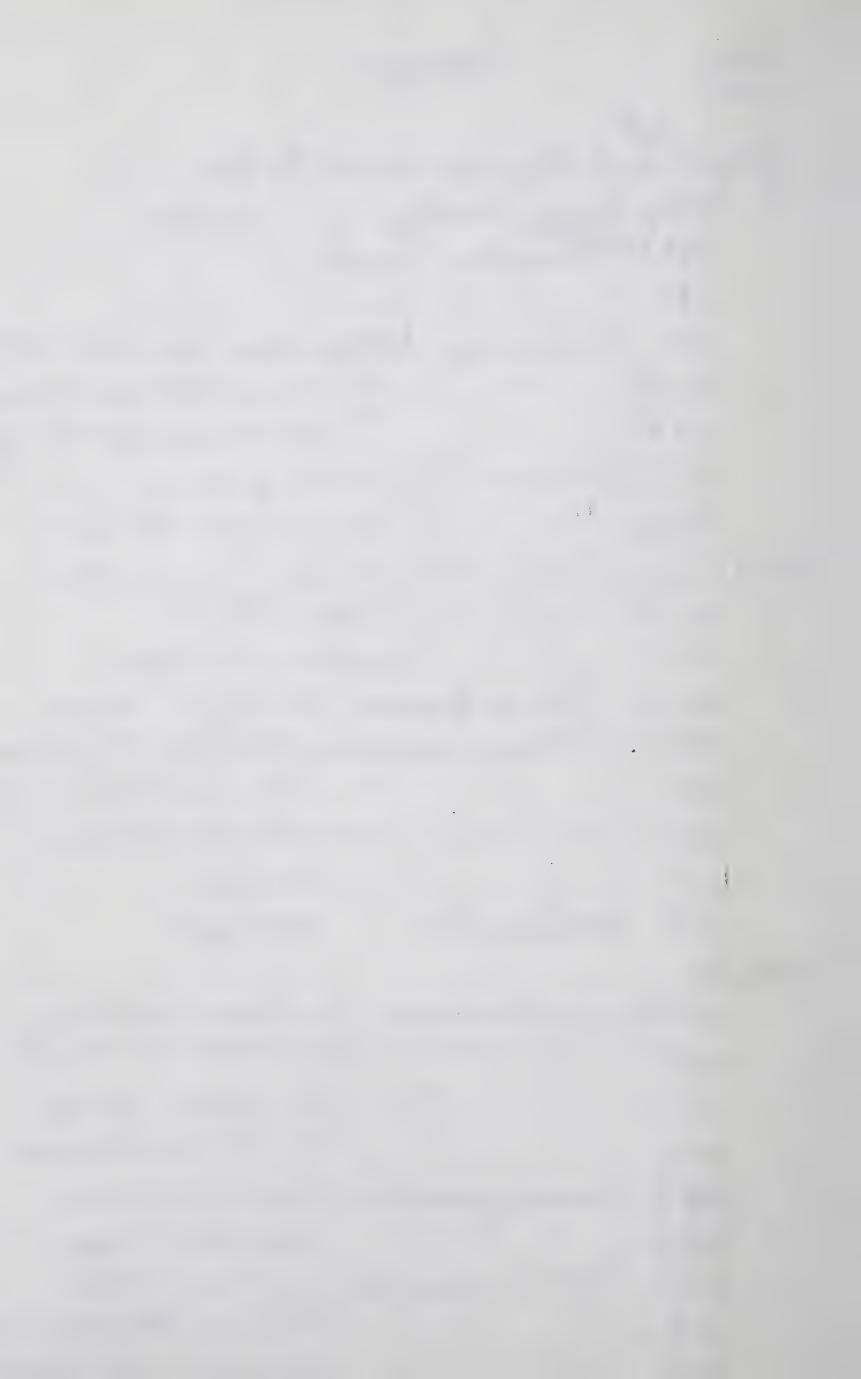


Putalogue Edge July 8th Contd -7 mi NW Shung 4500ft., Mueral B., les. 56 4 Dhy. lencogaster brevi candus. 5658 Perog. longimembris 124-68-19-6=7.0 gm 5668 " " 127-70-19-6=7.2 gms 5679 " 128-70-18-6.6.5 gms 11 129-72-19-6-6.4gms. 569 7 Dip. M. levripes 273-163-43-14=72.3 gms 2 emb-17 m 3778 Jams H100 pt., Muera Co., Nev. 5719 Hairy wood pocker- 58.3 gms. 572 Leopand Dizard-5738 ammo spennophieni leneurus - 177- [28] - 38-11=108, 790 July 9-3 mi 8 8 hurs, 4100 ft, Mineral Co., Nev. 5 ent to 5749 Pepistrellus Derperus 81-31 6-13 trs=5.5gms. Edge 575 P Mierodipodops Rallidius - 168-93-26-9-12.8 gns. 159-84-25:3-9-12.9 gws. 577 8 Voron. Maniewatur - 163-72-21-19=19.1 gns 169-77-21-18-20.0 gms. 160-67-19-17=18.4 gms. Wach throated Spanow. 13.0 grans. 583 Spade footed loud 5826 Dig. M. Merrianie - 240-139-36-14-49.0gms -233-130-37-14-38.7 584 9 Barn Swellow. 14.80mo 585 Grid vion Sizard- (Walker Lake Shae) 5869 anno lencurus - 19859-37-11 = 739

587 & Lazuli bruting 13.2 gus.



Catalogue July 10th 3 mm 3 Shung, 4500ft, Mineral Co., Nev. 588 & Sasuei brunting- 15.6 gms.
589 Scel Magister ligard
590 " 591 Thomomys bottae -220-73-30-6=118.4
5928 " 222-74-31.5-6=1298 gws
5938 " 245-79-33-6=135.6 gws
5949"172-61-27-5-54.1 gms.
5959 " 171-64-27-5-58.3 gms. July 12th Laton Panyon, 89 ookt., Mr Grant., Wilmen : "., New. 5916-8-Peroa. parvus-190-99-24.5.8=22.1gms.
5976 4 170-88-24-8=16.3gms. 598 & Ewamias Minimus - 171-78-29-14 - 29.0 gms 5993-Thomomys. quadratus-193-47-29-5.5=110.3 gms. 6018 - Callo. Lateralis - 220-82-39-19=89.4gms. 6028 Curso 20.0 gms. 603 & Mt. Bluebird 30.5 gms. hely 13th 60-8 Mondius Mondius - 177-38-18-12-40.7 gms
100-8 147-38-18-12-40.7 gms 171-40-20-14=57.5ques 123-34-19-12=23.5 gms. 608 9 Thomonys quadratus 196-63-28-6=98.0 gms 179-56-26-6=73.0gms. 6099 6108 - Microtus Mondanus - 163-41-20-12-41. Squisse 611 9 4 v 183-44-21-12-48.4gms 6em 183-44-21-12-48.4gns benib-lmm. 6117 17048-22-12-46.3 gus Henre 11 mm. 6127

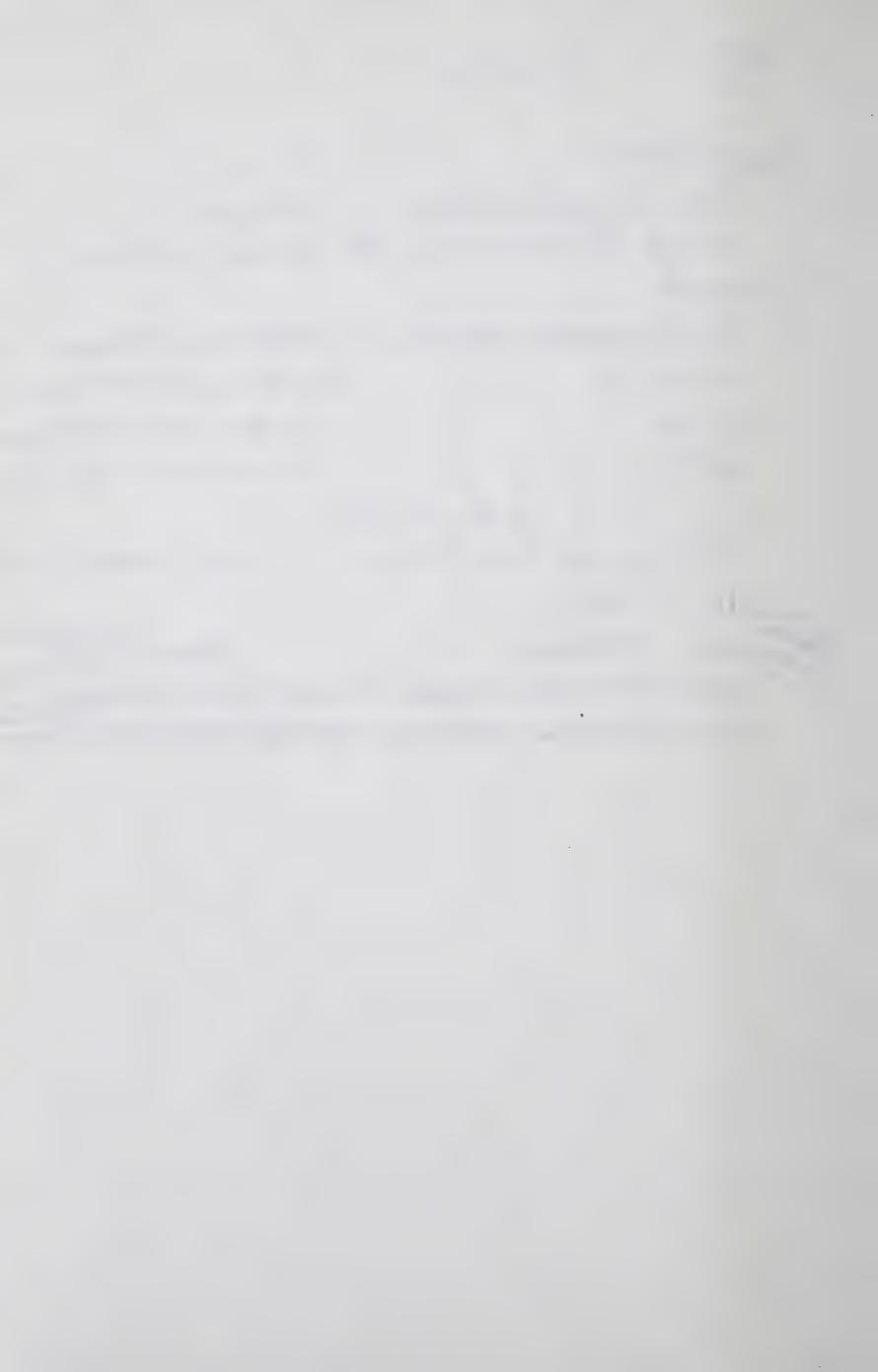


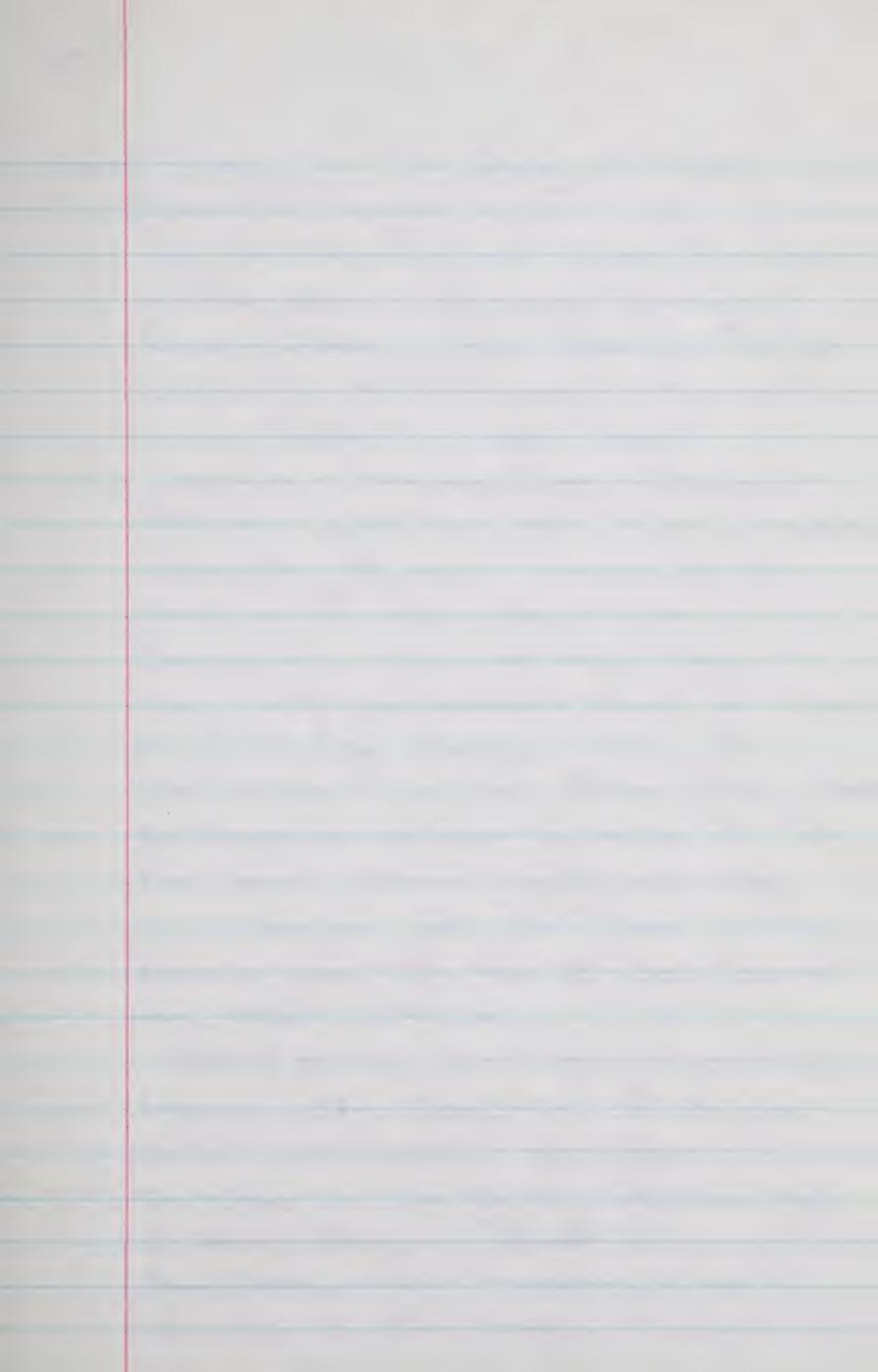
Palatoque July 13th Ports.

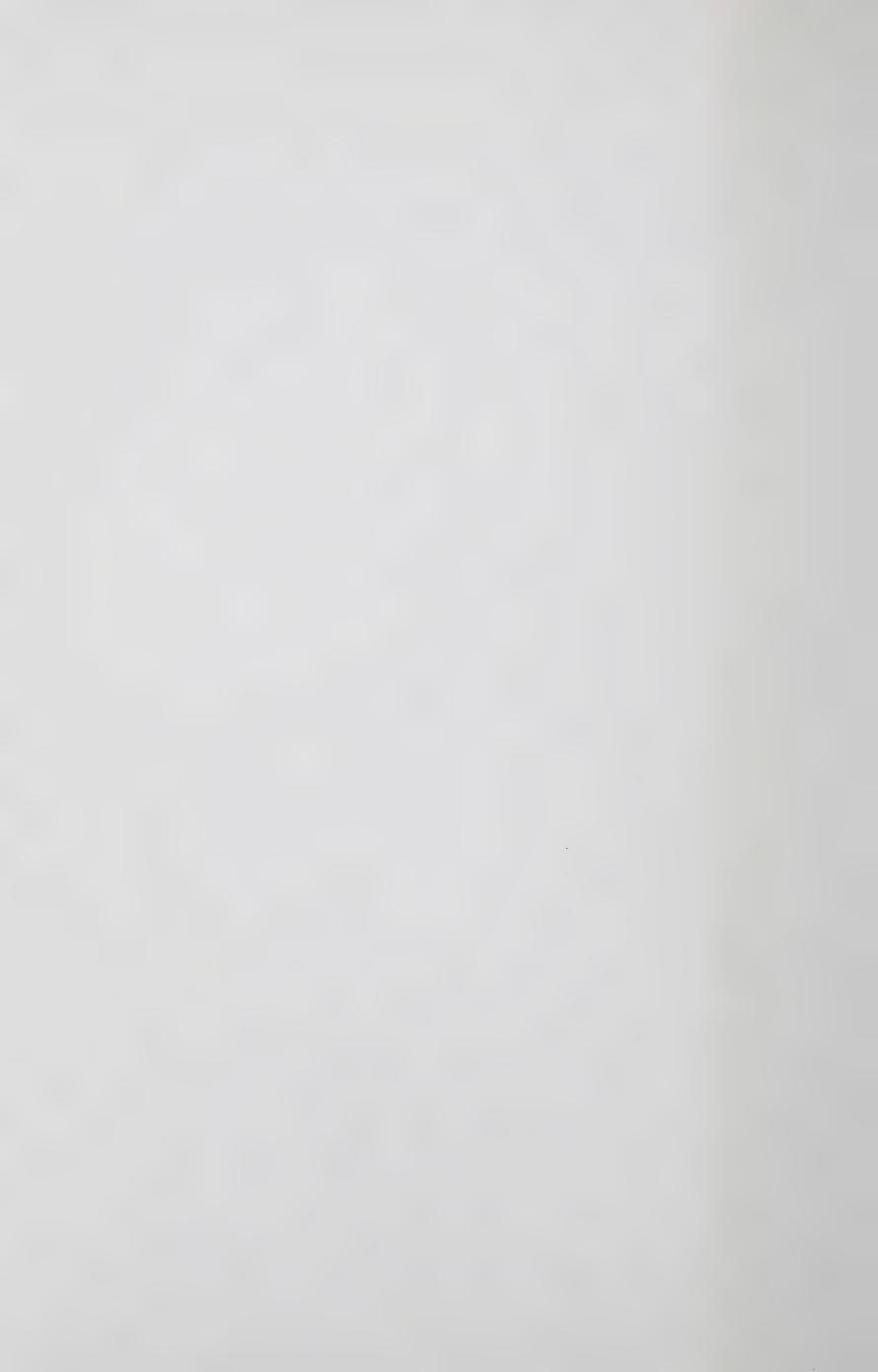
613-3? Normed Lank - 29.0 gms.

614 9 M. Montanus-143-37-20-12-31.2 gms. July 1 tal 615,8 Merotus Montanus - 173-45-20-14-39,20 6169 154-35-20-14-39,2 gus 153-37-21-14-32,7 gms 6186 4 151-39-21-13-36.1gm 1 July 15 1934 Potter wood Greek 9400 H., WitGrant, "meralle, New. lood-House 6203 Mrt. Quail -6208 Mt. Quail
170 gus saved.

6218 Microtus Morday -180-64-21-14-37. 4 grus Sent to Edge
6229 Neotoma Prince a -291-[13]-40-315-215.5 grus.







June 27th 2mi. SW Pine Grove, 7250 ft., Mineral Co. Nevada Left Burkeley Palif, at 9 a.m. June 26,1934 Brode, J. Stanley, Edge, Elton R., Heathers Dawson A, Hall. E. Raymond, Johnson, Davidt. Palmer, Metcher G., Russell, Ward C. Drove via Parguinez Bridge, Sacramento, Placerville, south and Jako Tahoe, Gleenbrook, Parson Otty, Minden, Gardnewille to a point in the hills about 15 mi. I of Gardnerville where we slept beside. the road. Left our overnight camp and drove era Wellington eastward along the West Walker River into Mason Valley, thence southward to a point 4' miles N. E. of Time Trave, turned right and drove up a canyon past Pine Grove to Ramp site as given at head of page-arrived here about 1/30 a.m.

Started putting out traps about 430 p.m. beginning at a point up the campon about two hundred was above the camp and going in an easterly direction up a small panyon. I about returning to Panyo along the N side and over the top of the ridge. Ho gout sized mouse trap, and 3 rast traps were used.



Itimerany 1934

June 27 Conté.

at the bottom of the cameon - space on an autrage of about 8 paces. The remaining trais were irregularly distributed in the Pinon and among patches of broken rock- Soil: Sandy loan pock.

June 28. Tools 14 mammals from trap line,

Species as follows. 14 P. maniculatins

Visited trap line 100 p.m. - twenty five traps out - 15 m artemisia - 10 m fragmented rock at top of ridge - total Apecinians 3 mammals and 1 green tailed towhere - mammals as follows -

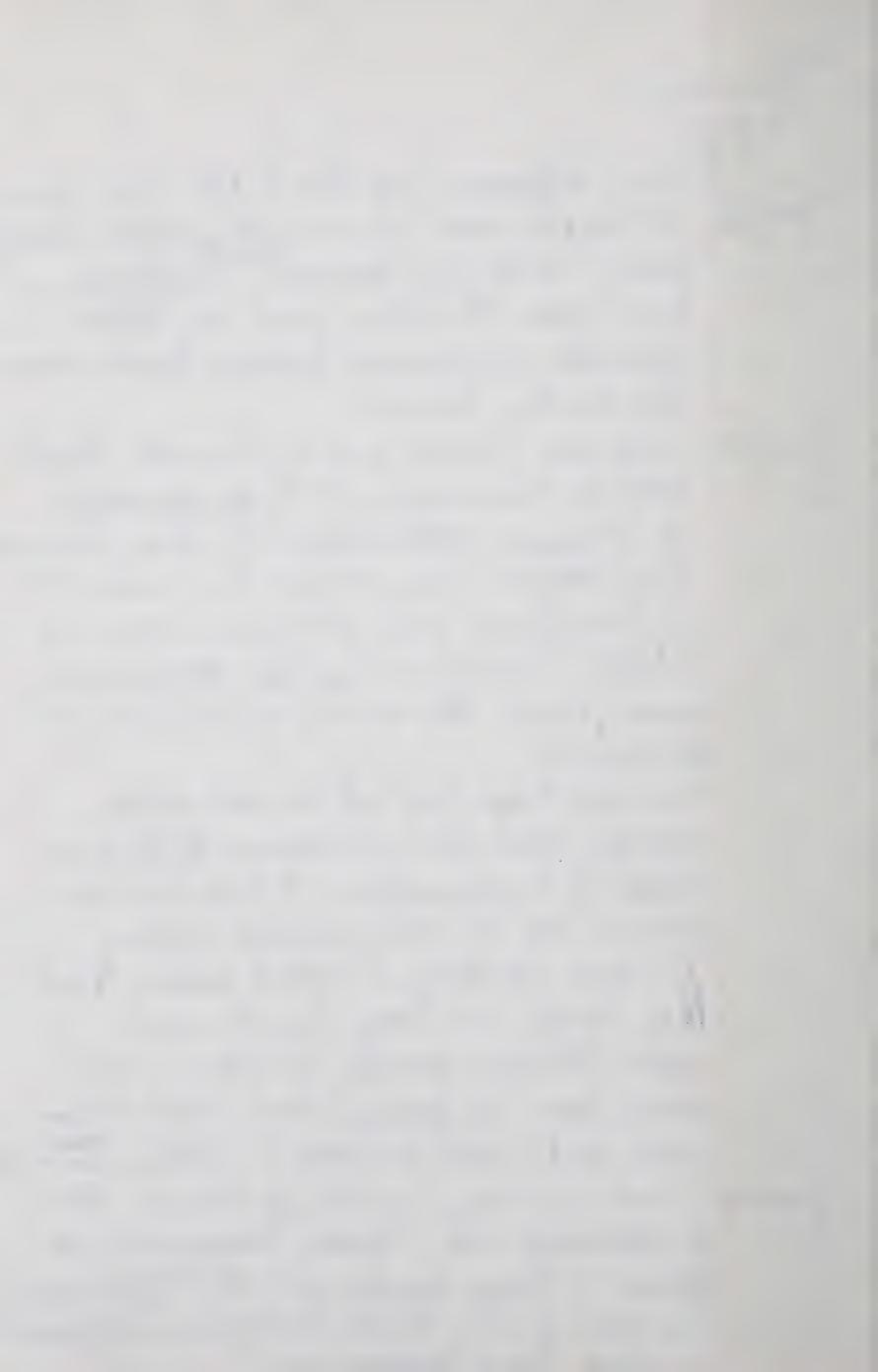
1 Pallospennophilus Vateralis Trepidus, 1 Estamias minimus and 1, Estamias quadrivattus

Shot one Male W. Tanager.

point about 2 miles S of camp. Set out traps at three places, 20 traps (goot mouse) at end farthent out 1800 ft in low artenesia wal occasional prinon pines. Soil pandy loan with lowederable amount of broken trock present The traps were put out about in mi back along road towards the camp- vegetation much same except



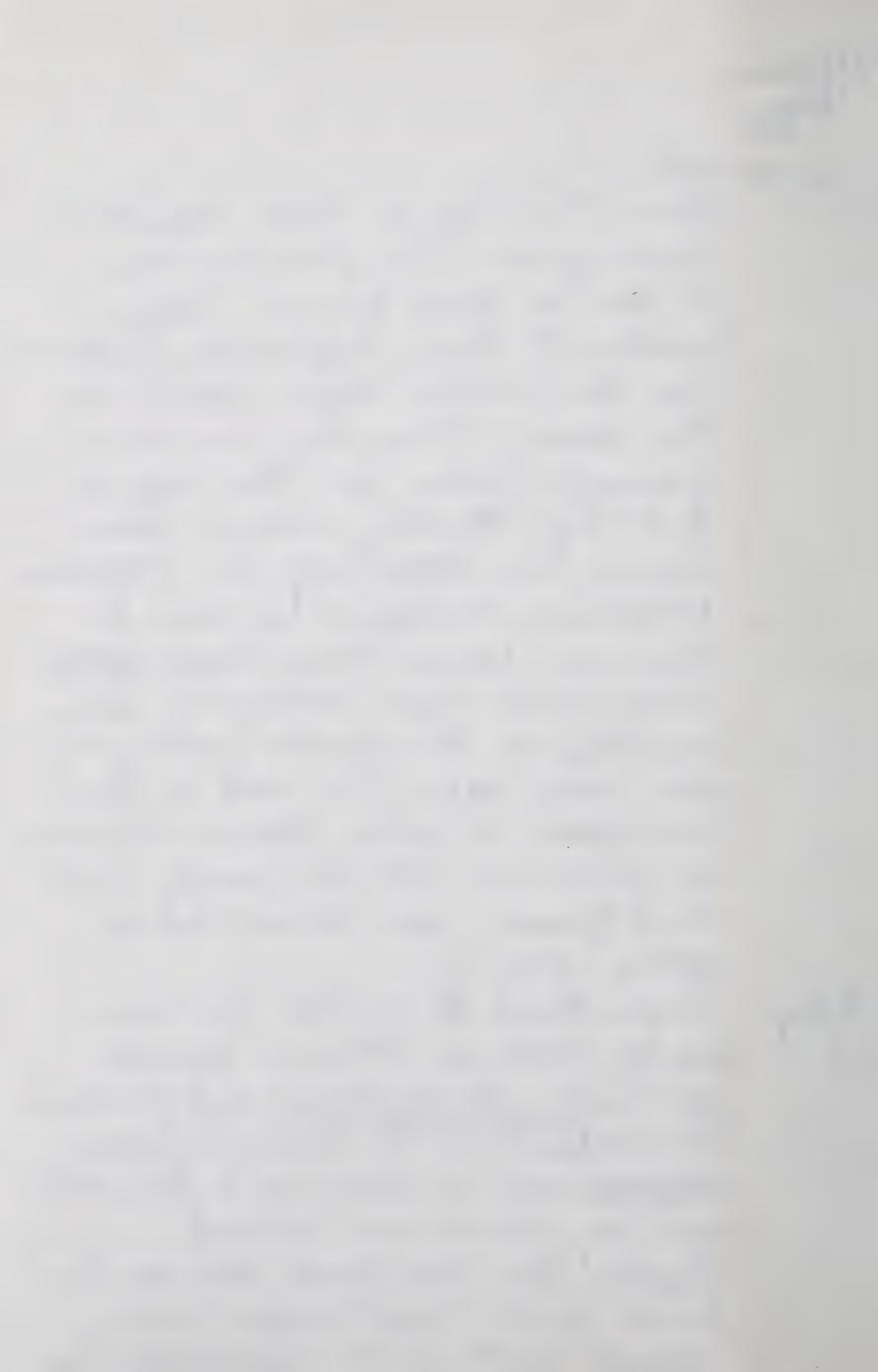
Itanerany Edge 1934 even sparcer up the hill- soil same. June 28, 15 traps were put out about half way back to camp- listemesia here was thicker and of taller growth, occasional pinon pines occurs Søl; Dandy Loam. June 29 Took up traps put out with Hall total 21 Manmals - 19 P. Maniculatus 2 P. truei. With respect to Rune Groeve this location was about 3'2 miles 5 W of Vine Trove and Aprennens are so labeled. Trose from the last station, i.e. Mearer Pamp 234 miles 5W Pine Trove and Took up trap that had been out all day yesterday about 8 am - 15 traps in Artemesia Milded 5 P. mameulatus, 9 traps in rock Put out 44 traps - 41 gout mouse - 3 rat Nog lamp in Bage brush and open tillsides among pinons - soil Sandy Loan in former, and pand, broken noch and noch outerop in latter about 1 paces June 30 Took up traps pourh of Camp-total 15 Manuals and I Junco, Manuals as Hollows - 2 Perog. paris and 13 P. Manieulatus The tall fairly deuse artemesia appealed to afford best trapping.



Itwerary Edge June 30th Courtd. But out 3 double gropher sets worth of camp about 700m, took two Toquadratus by 100 p.m. appeared to be the upper part of the Pinyon belt in Steeply rolling Country of alternate ridges and narrow balleys. The hillides near the camp have a fairly deuse growth a more or less deuse growth of artemesia with some Chrysothammus scattered here and there - On south of the higher and rocky hillsides only of neager growth of low arteniesia occurs. On the higher summits Managany occurs - The pois varies. In the valleys, there may be pandy loam, on the hillsides this is mixed with a areat deal of fragmented rock. Out the sides of the ridges and on the tops frequent outcrops of a volcame type of rock lan belfound. Water is not abundant but an appears and in their vicinity a small patels of meadow usually



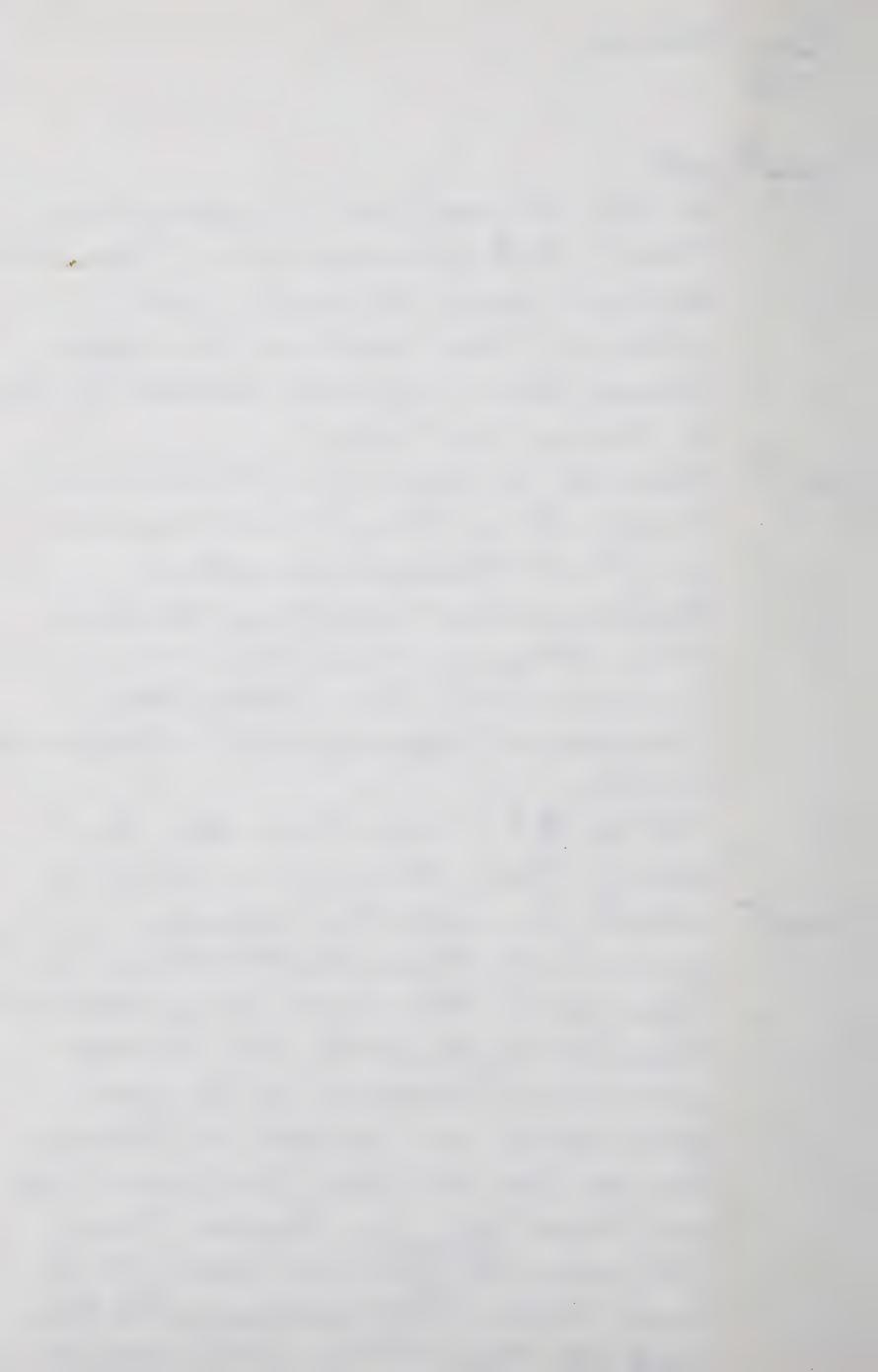
Itemerary Redox Aure 30 Conto occurs. This has a thick carpet of short grass - The shortness may he due to sheep grazing-Large numbers of theep appearantly pastine thru this entire region earlier in the Deason. There are numerous prospect holes in the biguity and the Country around have Grove has the had the headation Associat Modefied by Man, as there are several large Mines (gold) there which give evidence of training Suployed a Rohsiderable number of men years ago. The road in thrul Pine aplaces as hvell as rough - but Mo difficulty was encountered in acture over it. Broke Damp & Mi. 5W Pine Grove and left there at 900 a.m. Roadster, The road out to the Main highway appeared was a better road then the one by which we entered.
Reached the new Damp site on the bunks of the west walker River about 10 30 a.m. Socation is



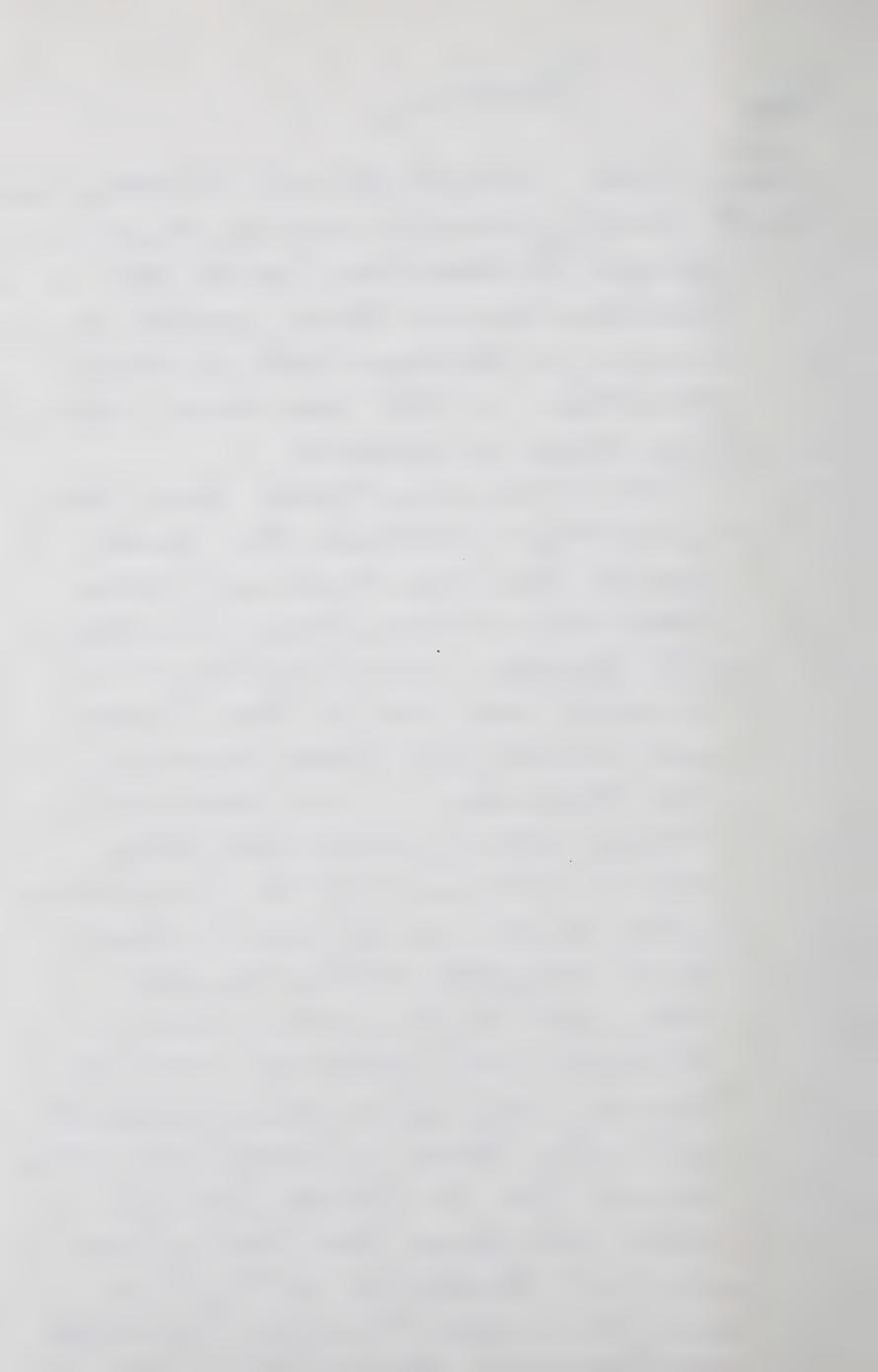
Ituerany July 1st Cont. 12 mi. 5 Gerington, 4600 ft., W. Walker R., Lyon Co., Nov. Put out 50 traps 10 along River banka 5 thru willows and brush remainder over gravelly and nocky area which included relatively level area, hillside and top of ridge-The hill side was very rocky with many boulders of Considerable size. Dommant regetation atriplex July 2. Took up traps which contained a total of eleven manmals as follows-1 R. megalotis, 1 P. truei, 3 Perog. formosus, 2 P. crimitus, 4 P. Maniculatus. The relatively level area gave very poor Put out 40-traps NE of Camp- (Sout) 15 along bank vong atton ditch Catuples 10 M Most grassy area - Willows Took up traps this morning total 16 manuals as Rollows: 8 P. Maniculatus 2 P. crinitus, 2 Perog. formosus, 1 Perog. Longimembris, 3 R. megalotis Put but 18 Bout and I rut trup on Sandy ridge at edge of alfalfa freedmythe of large obrues - atripley and others on pandy soil - Tomis Merugton 4500 ft., Mason Valley



Edge Itinerary July 32d Contid
Put out 32 traps (Govt.) in a pandy draw 113/4 mi 2, 23/4 b of yernaton 4650 ft, Wason Valley. Sandy at bottom of quely with patches of loose pand on the gently Bloping sides - Vegetation scattered atriplex of rather low trabit. Moon the 32 traps at 113/4 his 5,23/4 mis = Yenngton, Mason Valley took 8 mammals as Rollows: 4 Microdipodos pallidus 2 perog. longimentus 2 Dyrodomiyo Merriani Know 18 traps on Dand rudge 10 mi & Manuals: 5Dipodomys ordie, 2 Reithrodontomy Megalotis. Put out \$3 \$1 ptee traps along south boula of River across home the comp. July 5th Stunted for brids this Morning 10 2 mi & Merington, W. Walker River, Lyon E. has. higher ground along river, large cottonwood tres; but off to south trule swamps and willows. Pousiderable bird life present. Species Pollected are indicated in Catalogue Yours Deen but hot taken - Black crowned Night heron, Meadow larls Long Spanow, Downy wood pecker, Harrish haule? Spanow Haule, Quail, Killden, Cliff Devallows, Cow-birds, Visited steel traps first thing in stre morning



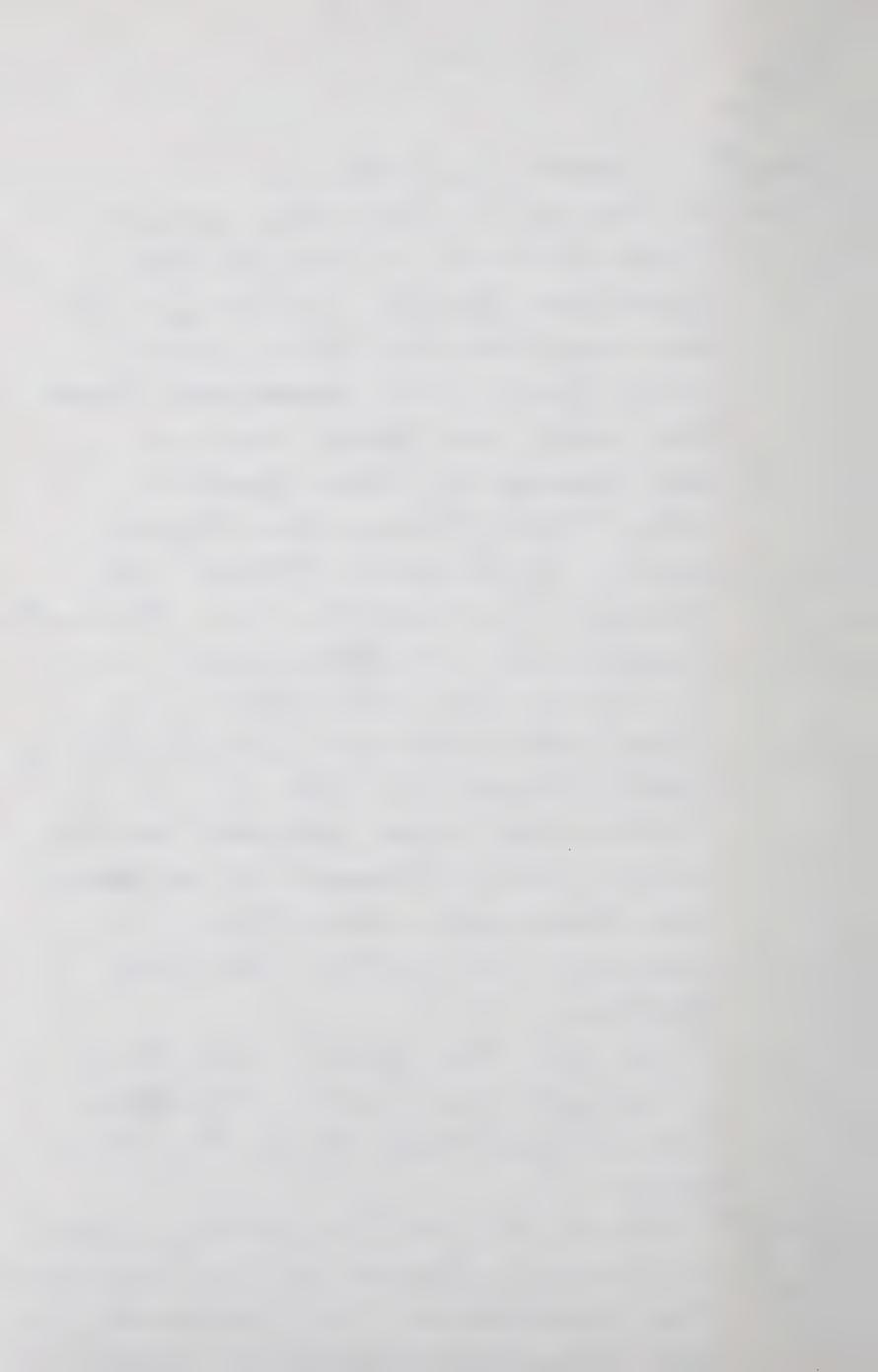
Itinerary Boos July 5th Cost'd - Mot disturbed and Mo tracks war.
July 6th Stunted birds this morning 10½ Mi &
Uprington, W. Walker River, Lyon Co., New. -Dirds seem but not already recorded in ituerary or Patalogue: Bush tit, Hairy? wood pelder. 3 Steel traps across river knom Pamp un molested. 1 This Pamp was located along Pido of the Kwer on relatively low Dandy around - There were numerous Rotton Woods and willows along the boula with atriplex back from the river-The walley was two of three hundred yards wide at this point narrowing the camps- Stony and gravelly ridges nose in succession to the main ridges herhaps 800 to 1000 lt above the river-Several irrigation ditches are on each side of the river - with Pottonwoods and willows on either bouls -The river itself had a Ravey rapid talk with nocky bottom in most Was attho here and there in Queter parts the bottom and shows were Dandy-Dind. were Rain numerous in the Tris and willows near the rurer - Coon Tracks were observed at several Places l'on



Edg.

July 1th orever - von talsen -Gul 7th Took up the 3 steel traps - no results. Broke Pamo with Brunklast and proceed via Ulrington to The thoad was three the valley many alla fieldo with occasional waste lots until we started over a low range of hills about 12 miles hwoof Shung this type of Country lasted until almost into Shung- The vegetation was dominantly thiple of dwarf rowth on the slopes and bull sides. Pamp was salablished 3 mi dil Ming 4100ft., Muneral Po., Nev. 45 hard and here set out This NW of the 450 pt., Muneral o., on sandy shope mixed with a small fragmin black nocia- the vertitation was four atuples. 9 traps good were put cut Nof camp in Sandy soil good a rewith of implex Received first mail of the trip this

July 8th 45 traps, 7mi. mu Hung, 4500 pt., unled 9 mannals as hollows: 6 Perog. Longimentris 2 Dep. Microps levipes, 10. l. brevioundus. No I facts microdiood ops as predicted by Russel.



8000 1034

Itmerary.

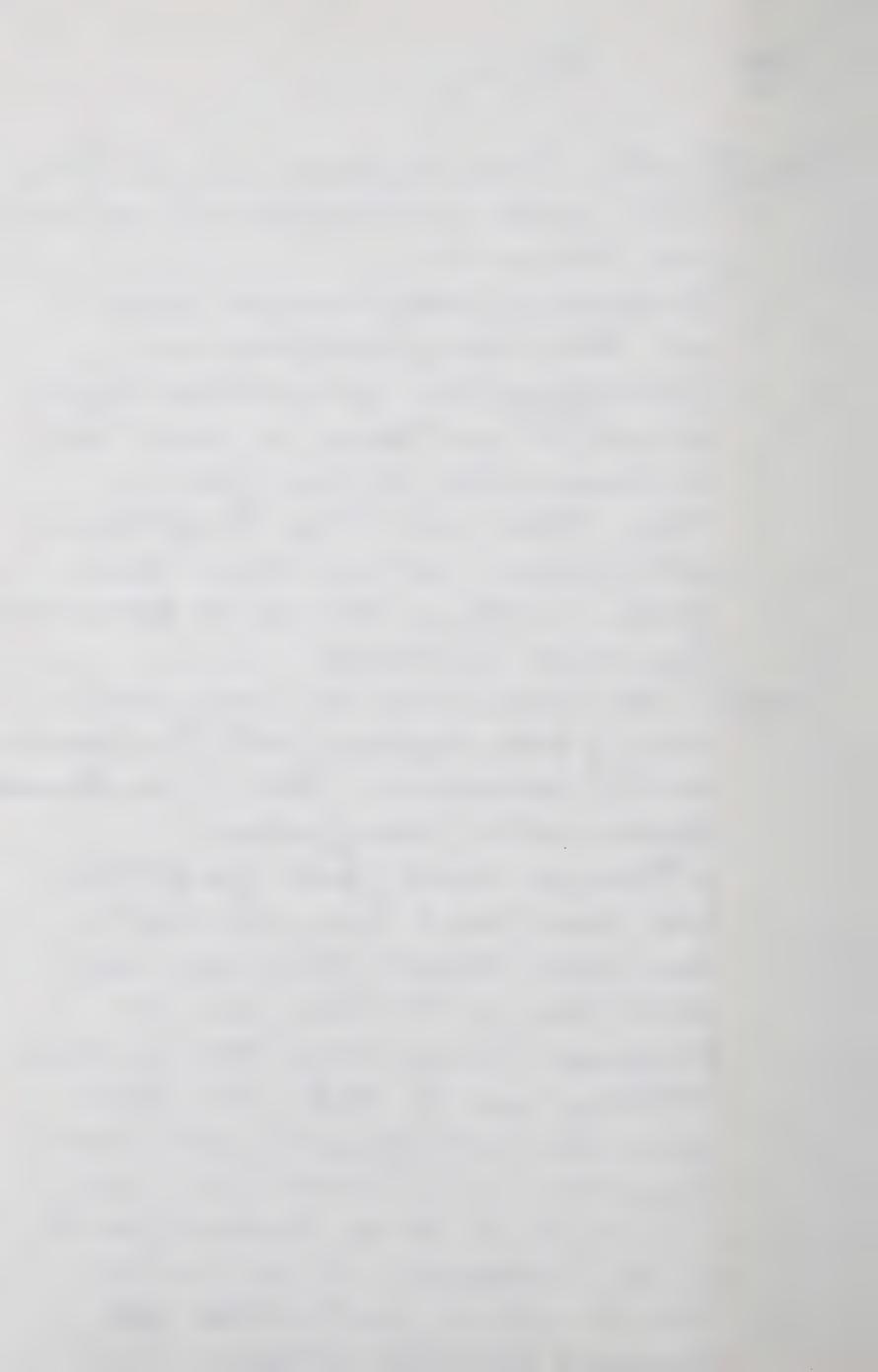
July 8th conid. 9 trap Nof Camp-3mi & Shung 4100 Rt. 440 3 mammals-2 P. mamoulalis 1 Perog. longmembris-

In afternoon walked around camp and that a having wood picker, an amospermophilus and a leopard lizard. Set out 35 gout through in sand north of camp - sand soft and deep in many places with large Chrisothamnus and Atriplex. To traps along river? banks in welcows and small followoods that a bat Papistrellus.

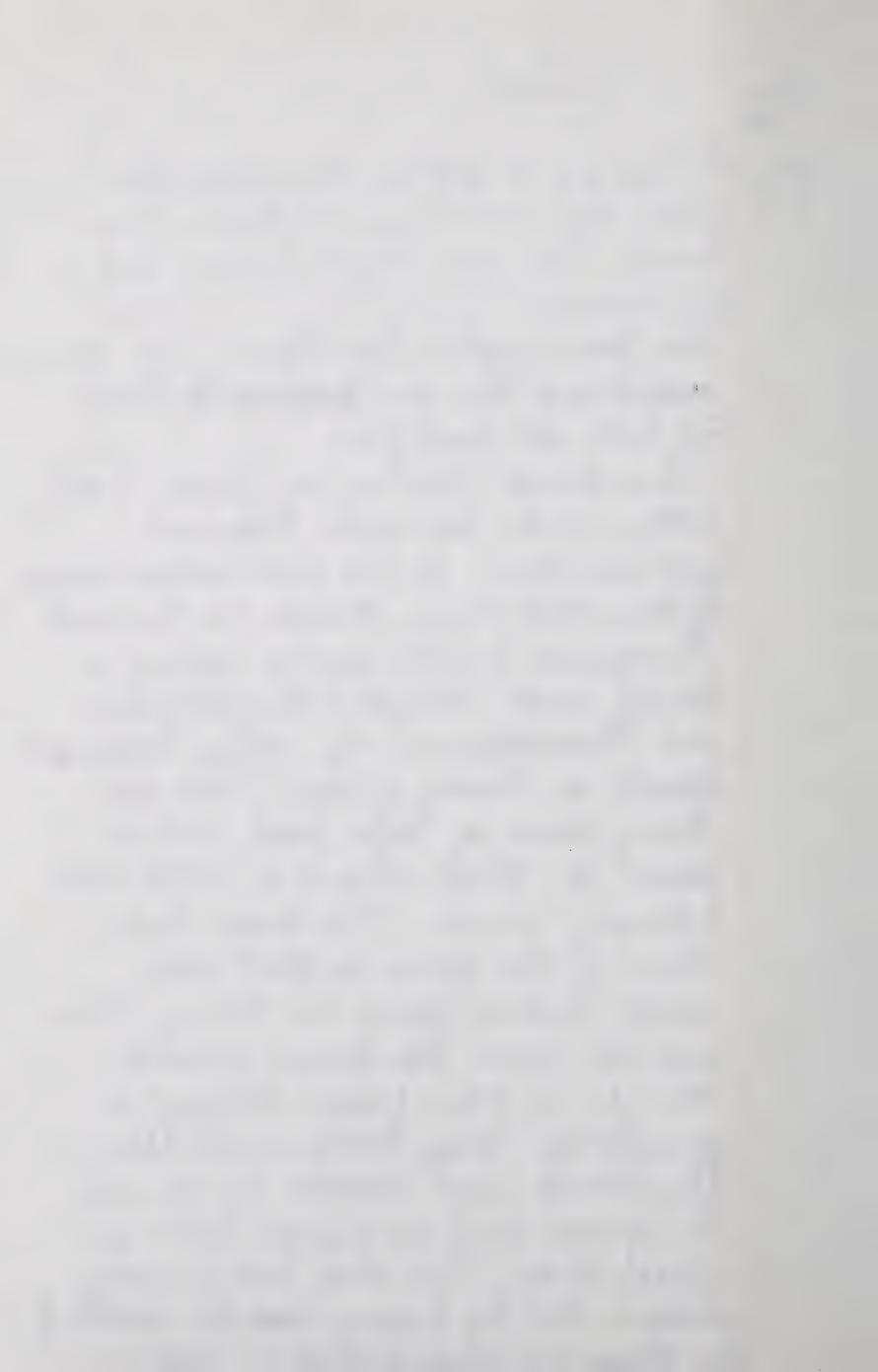
July 9th Tooks 12 manimals - 9 in Dand nouth of Pamp. 2 miero depodops and 7 Dip. Merriani and 3 P. maniereatus. Shot a brack throated

Spanow and a larm swallow.

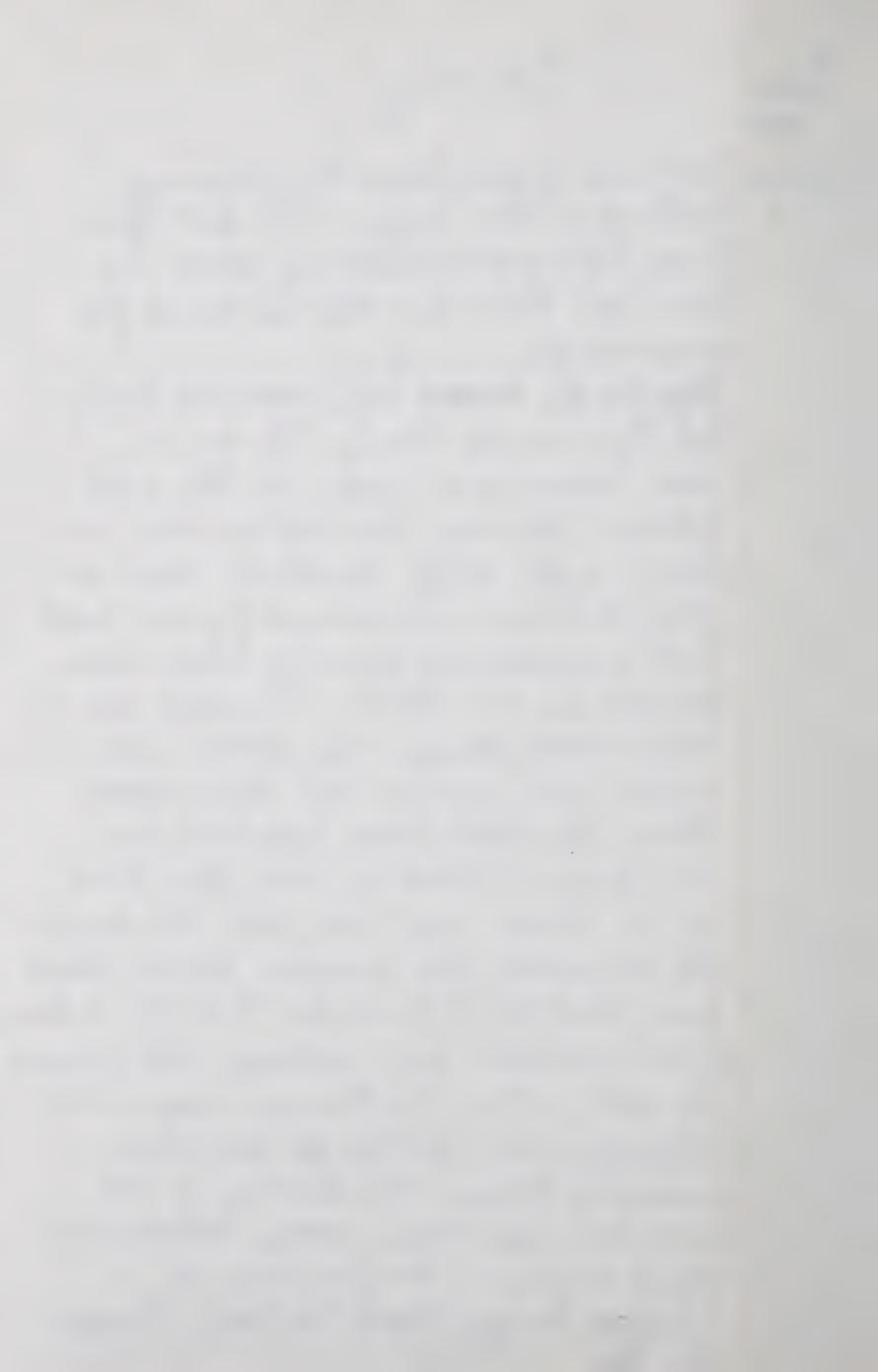
In afternoon visited East throw of clearer hale - about 8 mi S. Shurz, the plane line has receded markedly appearently with recent times as all show lines are louspicious - There are wike bands of graves separating zones of pand - the sand Sones seem well populated with D. ordin apparently in the lowest zone - Looks like. It would be an excellent place to study succession. A runnier of hinds twee observed on the lake guilds, commonants and white pelican.



Linerary Edge 1934 July 10th Put out 8 gopher sets along the ruer this morning - up Stream from Camp. That two Lazuli brining and an ammo. Took four a opher by 100 pm and one more about rix pm from a to Shot two bats at turkight This camp lies in a fairly broad balley with Dot seven thousand foot morniams to the west and a range of somewhat lesser attitude to the last The general Mature of the valley is Sandy wich Ottriplex Chrysothamins and Chaenopodium of nather lexerient growth in Many places. There are many areas of soft sand which borying winds - The lower land Close to the river is out hito small Indian forms in many places and the rue boules out possibly growth of large Cotton wood trees. Our camp was located in one of the groves and it proved to be a pleasant one. The river here is very shallow but by digging time the huddle of the stream we made a place to bathe



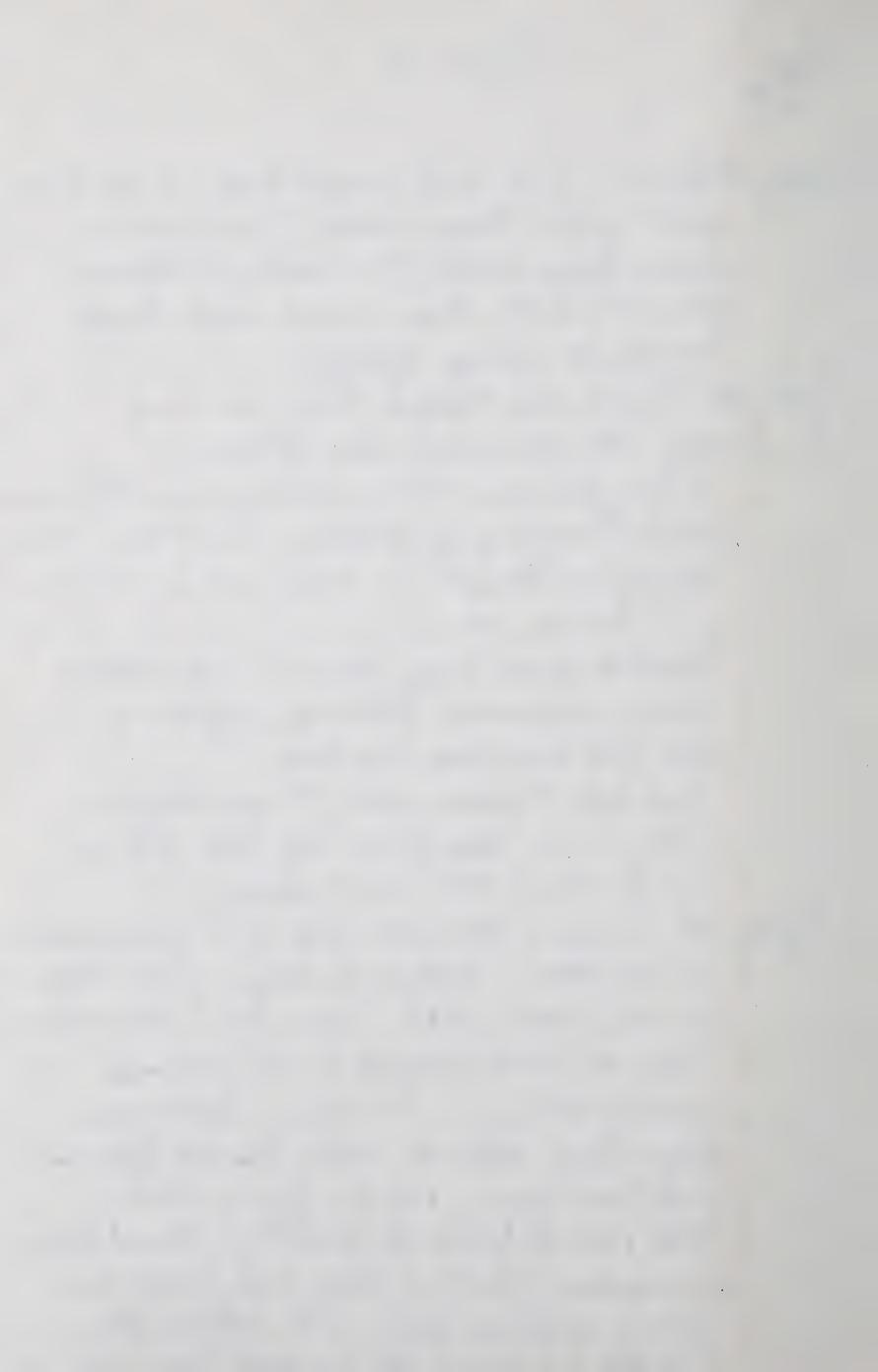
Itererary Godge 1934 July 1) Took up gopher traps this morning. nothing in the traps - The five Usie traps have not yelled any result the have had them out around camp for Several nights. jøde Enpark before moon and left for Mit Grant via Thurz-The country was barren and rocky as the rold followed the west show of the lake but Many of the Oliffs Contained Pavies and large Previces - no annual life was noted but a minuber of aquatre birds were observed on the lake. The road up Cotton-Wood Campon was about 10 ofo grade with willows and cotton woods along the little erech that runs down the carryon - about a mule after turing off the main road and into the carrigon the encountered the punyons which extended from about 5500 to about 7500 ft. a Comp of CCC workers are widening and unproving the road - alove the punyons sage brush artemesia and patches of Wountain malogamy occur- the Country is not precipitous but many rocky outcrops and points occur - lu camped at Lapon Canyon 8900 ft. Mt. Brant, Mineral Lo., Mes.



Itinerary Pars 1 July 11th Ponis Put out 50 govt trops, 2 rest traps and 4 gop en traps west from camps thru dage brush to rodby outerops about & mule then north and books July 12th Tooks up traps this morning I total 24 manmals as follows -3 Perog. parvus, 1 Entamias minus, 18 l'. Manculatus and 2 Thomomys quadratus. - Shot one Ble-Spennophules ateralis on rocks outero's - 1 Junes On I Brewers Afarrow. Visited Deven traps let in Noch outerop Tour 1 minature Callos permophilus shot two mountain blue birds -Set out 3 gopher sets, 27 gort traps in bog-5 in sage above bog-all S.E. of Camps about two hund yardsJuly 13th Tools 5 Microtus and 3 P. maniculatus set near tent yielded Immat. P. Maniculaturo. Traps at rock outcrop 4 mile W camp yielded nothing. In sage Artemesia above bog pater a white browned sparrow with two young able to fly a little. Shot note a plack of about 15 Homed larles on meadow down of bog and bulled two.

Took 3 gophers from the gopher lets.

Left 34 got trap in the bog about 150 yas DE of



800g Itinerary Camp. Visited Fraps in bog about 1 pm and took of Microtins put out ten more traps. Several of the marstus as stilled from exposure to the run Tooks I more microtus at six pun when I kishanged. Put out three gopher sets on the way to July 14- Took up steel traps of gother traps-hothing.
Took up the 45 traps from the bog-11 mammals - 2 1. Manheulatus and a Mucrotus montanus. Made Sketch of Microtus burrows and runways. Took Photo of habital and a typical running-Moved Camp after lunch hack down Rotton wood Panyon- to station: Cotton wood Creek 7400ft, Mt. Grant, Muneral Co. New. Set out in the evening 30 gout traps tratty along and in rock slide just south of camp along creek up slope E of road and about 150 yas alove 5 of Camp-Put out I gopher set in the little weadow at the top of the first bloke -

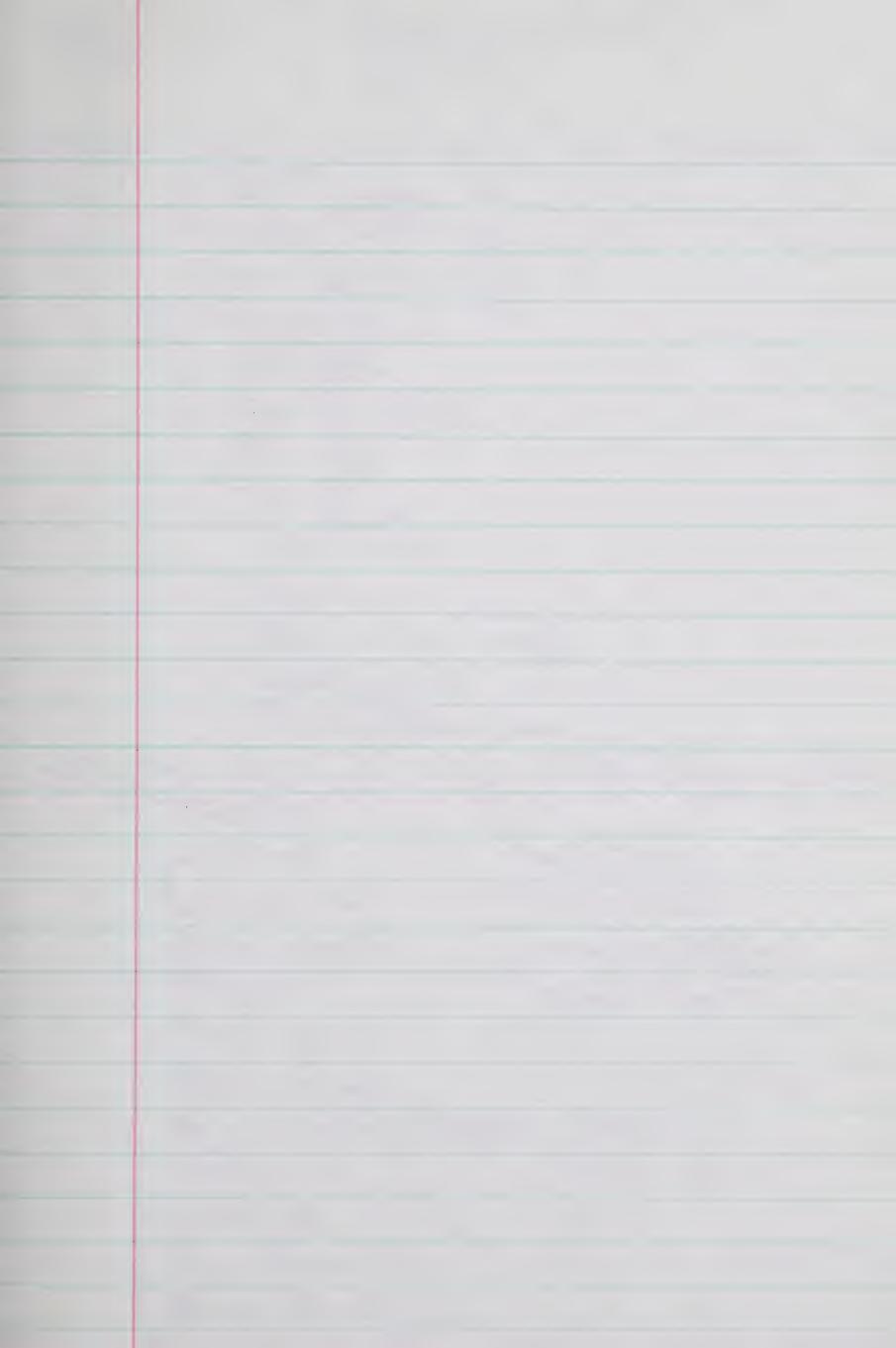
this Paris is protty well up in the punion belt. It lies in a rather marrow valley down which the Cotion wood creek flows - Barge aspens line the creek blows - Barge aspens line

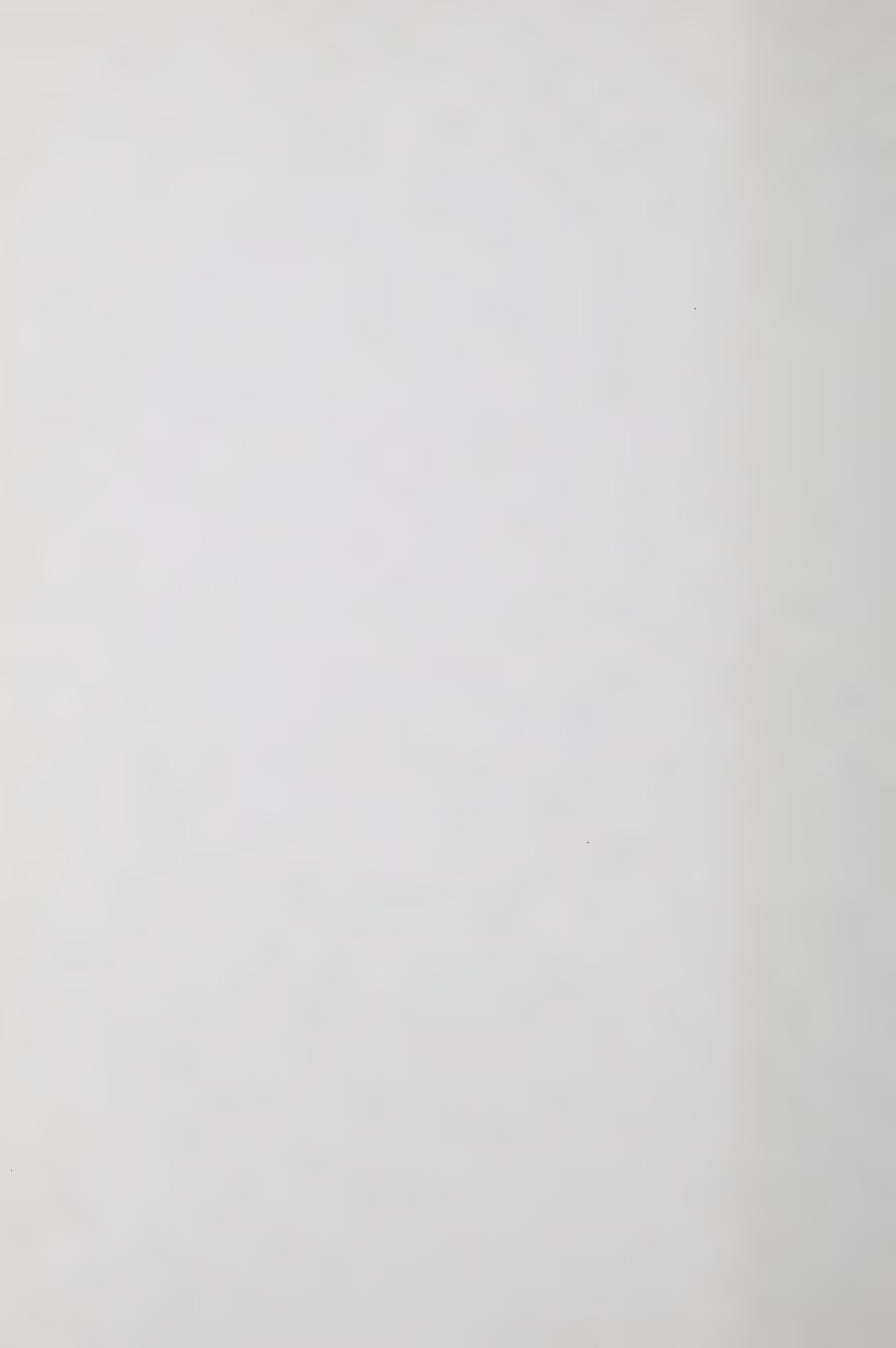


Liverary

Scattered pinyon grow on the Marrow floor of the Valley- while a fairly heavy stand of pinion lover the E and W. plobes of the valley-Willows and baild rose bushes line the banks of the smaller creaks which luter Cotton Wood Creek. Mahogany Can be seen from camp about three or four hundled feet up the E slope. July 15th Took 11 Manuals from the traps this Morning: 2 Nestoma ainerea, 1 Thomomy quadrettus, 1 Microtus monar, 7 P. mamenlatus Vand 1 tood hom a tras in Cottonwood Creeks moon the Camp.

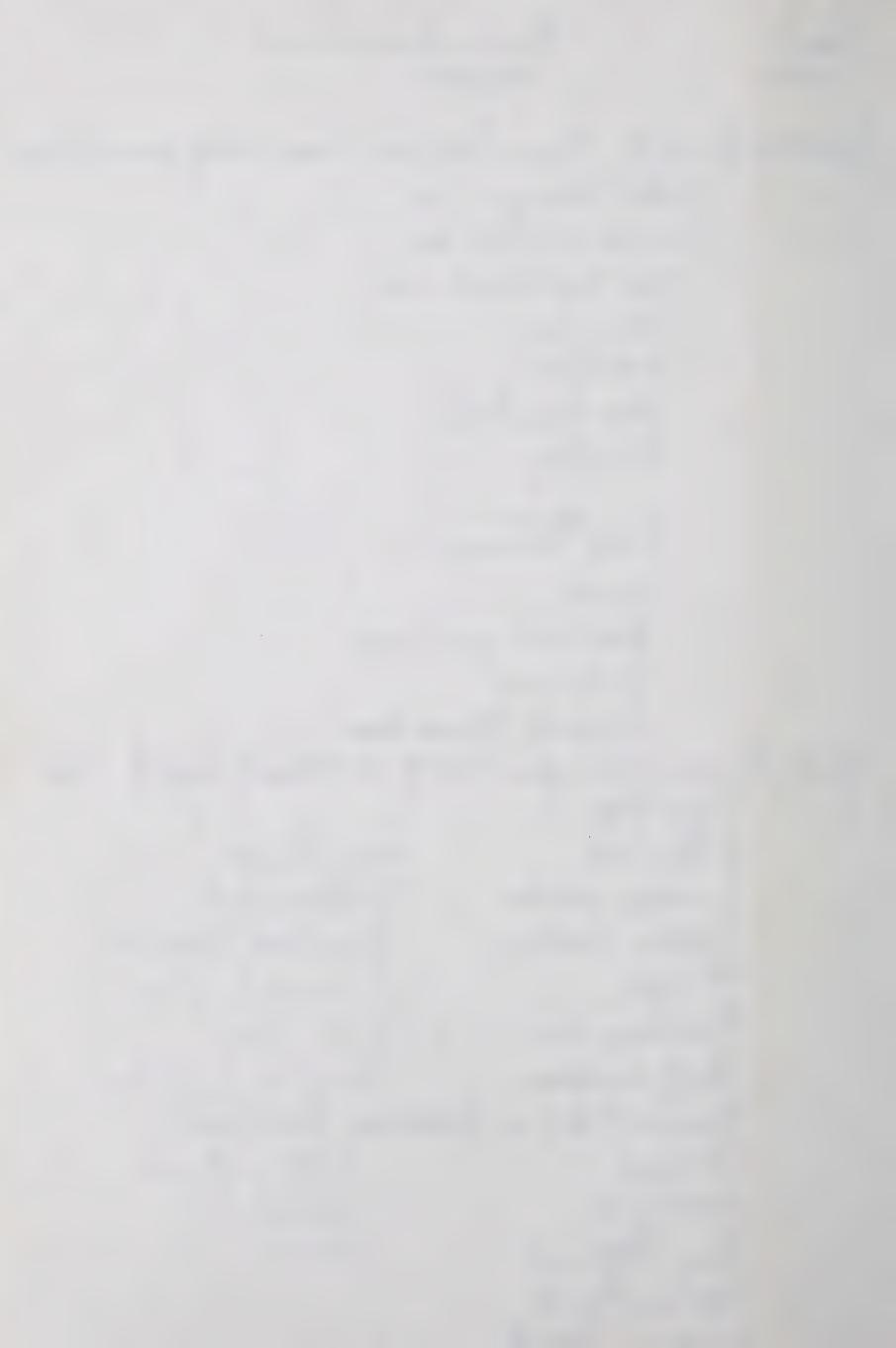






Burds observed and Collected Godge 1934. June 28 to July 2 2 mi-SW. Pine Grove, 7250 ft. Muna Co., News. Westn Tanager shor Treentail owhere tras Texas Nighthawks shot Poor-will West Robin West Blu Bud Dlus Jay -Ruly hummer Junco Back throat gray warbler Purple finch July 1st 12 mi & Uprimaton, 4600 pt., W. Walker R. Lyon Co., Nev. Litare Chat W. Blue bird Days Phoele. Meddow lark Lulescent Warbler Green bach Gold frich. Yellow Warbler. Maghie-Mourning dove Orlaansas ang brid G. blue heron Prever + Red wing Black Crown night heron Blacklind - Wark How W. A obin -Redung Hank How finch Bushtet Dong Atamous Sparrow Hawk Quail

Redtine? Hawle.



9008 1934

Birds observed

Mit. Bluelind.

Dazuli Burding.

Blackethrout Deparour

Bullock? Oriole

Arbansas Vingbird

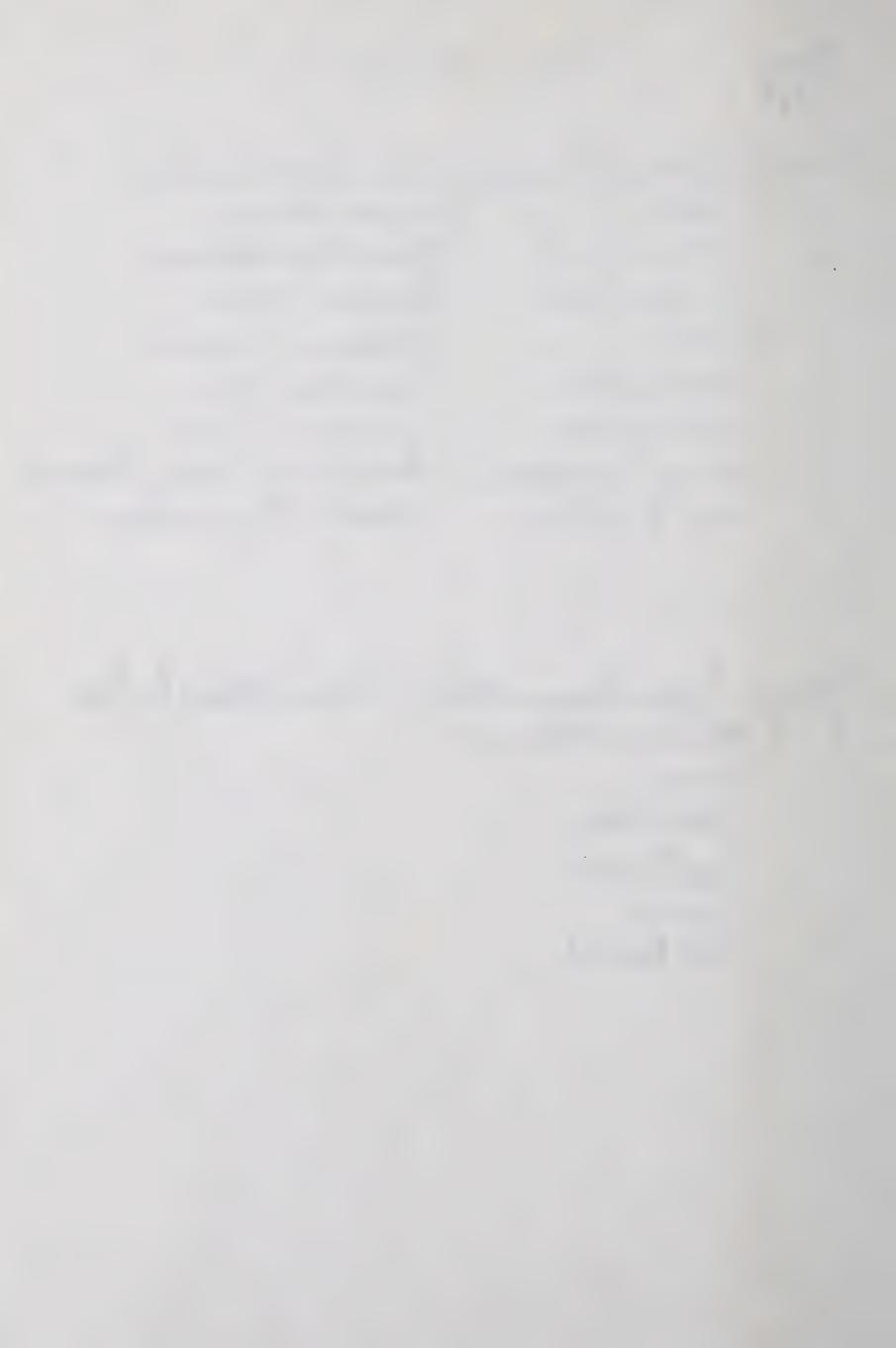
Great blue heron

Curranion? Teal.

Brewer? and Redwing Blacketind

Western Thy earther

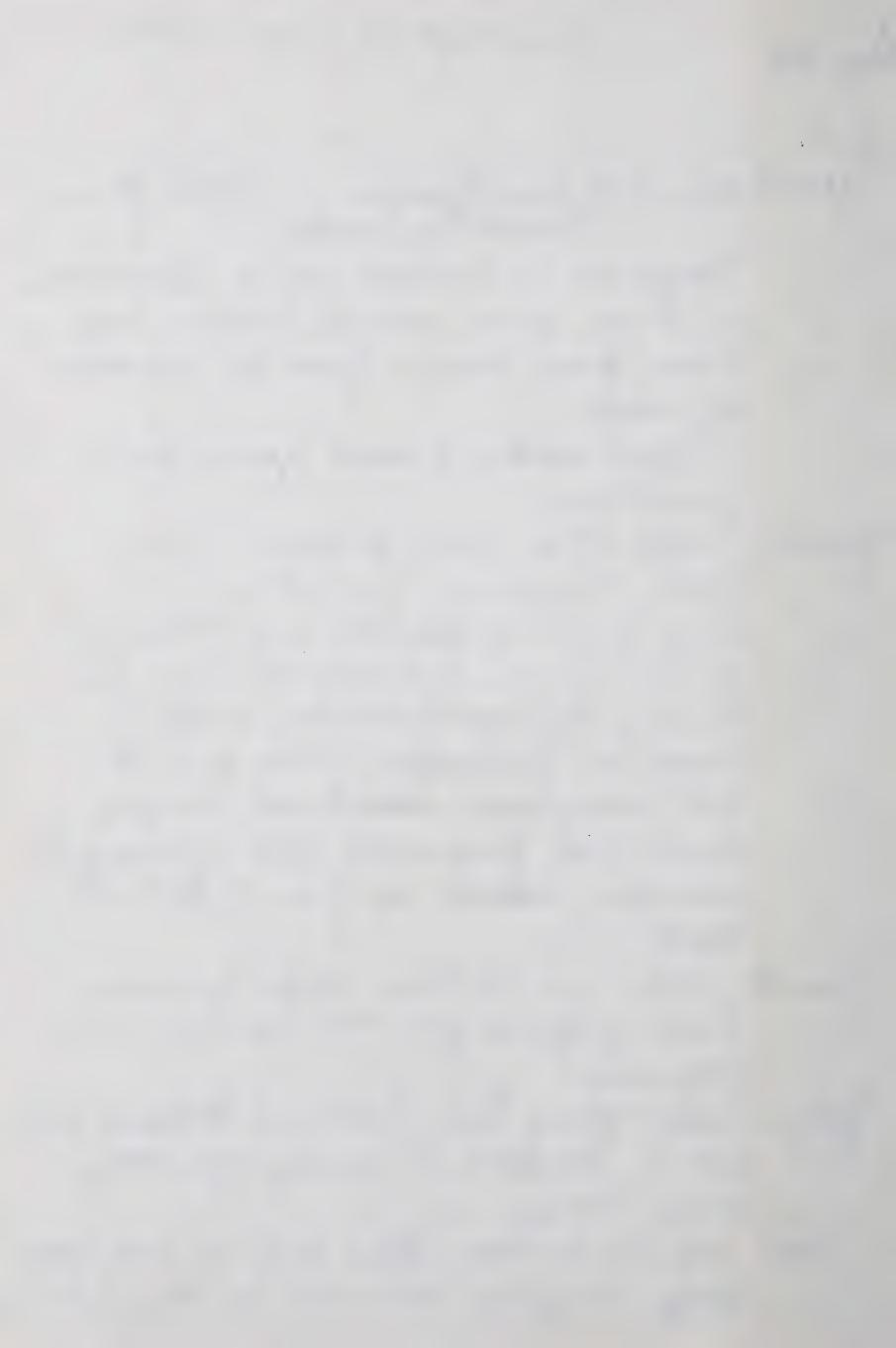
July 12 - Lapon Canyon 8900 ft., Net Grant, Mineral Co., Nev. Sag Drewers Garrow Juneo - Homes Park
Lage Thrasher
Juneo -



Peromyseus Maniculatus 60as 1934 June 28 ami. 5 W Pine Grove, 7250 Rt. Meneral Po. Nevada: Caught 14 in 40 traps set in Ortemisia, in Pinon pines and in broken rock areas from Panyon floor to summent Of ridges. Approximately & spoere young and Immature. June 29 Caught 24 in about 81 traps, 5 from locality traped over June 28th and 19 from boints 3½ miles 5W and 23/4 min 5W of Pine Grove, the majority from the former, the type of country much the Dame, i.e. Urtenesia, Piñon and the soil sandy loan prouved with varying amounts of fragmented rocks- young and immatine made up from 1/3 to 5 the latch June 30 Took 13 in 44 traps apper 13 young-Showed preference for tall relatively dense artemesia.

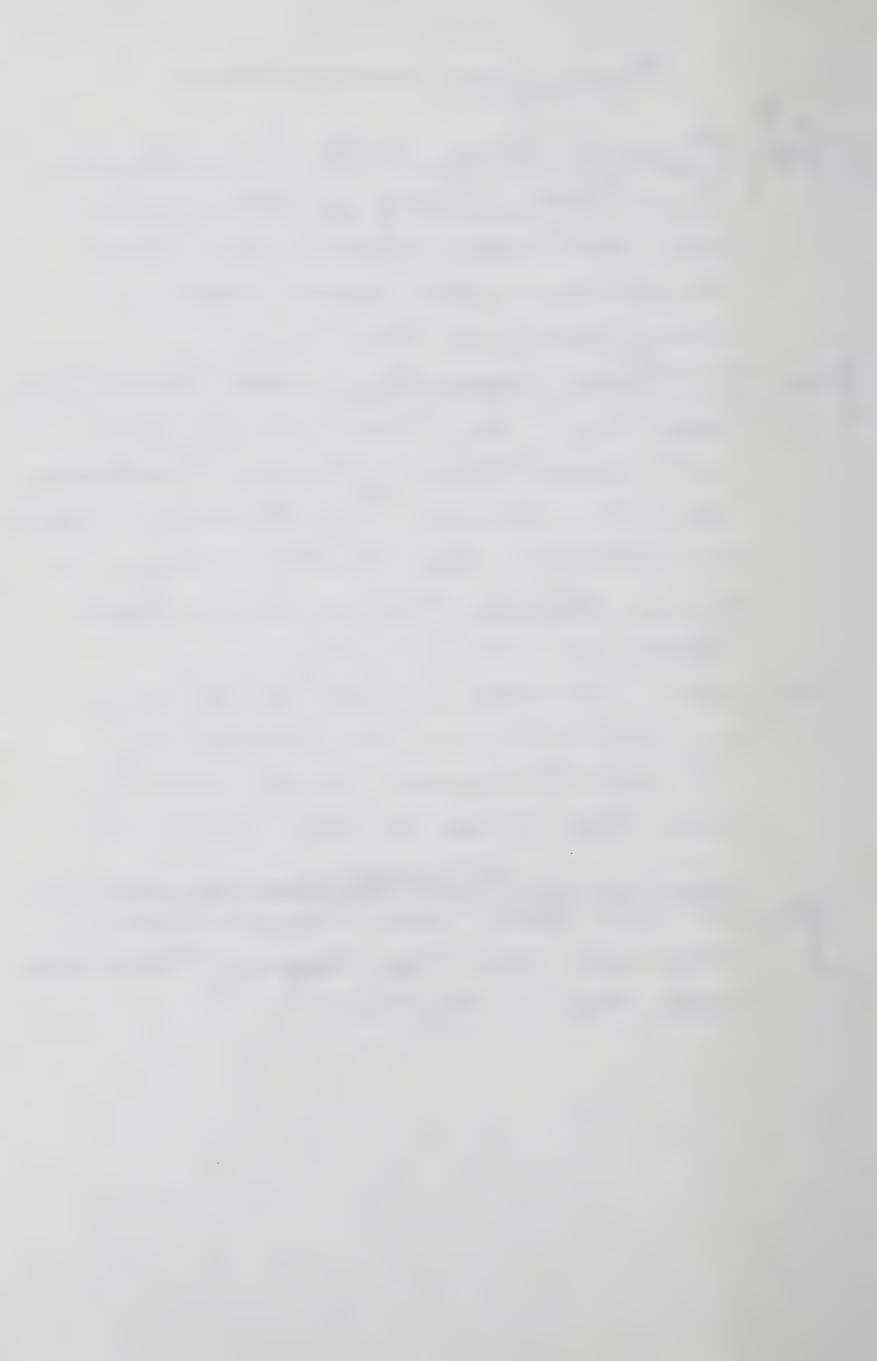
July 2. Took 4 along Ruier bank and Willows and out in atriplex in rocky & gravelly areas-50 traps

July 3 Took 8 m to traps - taken down in Rwei bottom along irregation bouls and on stony hilloides

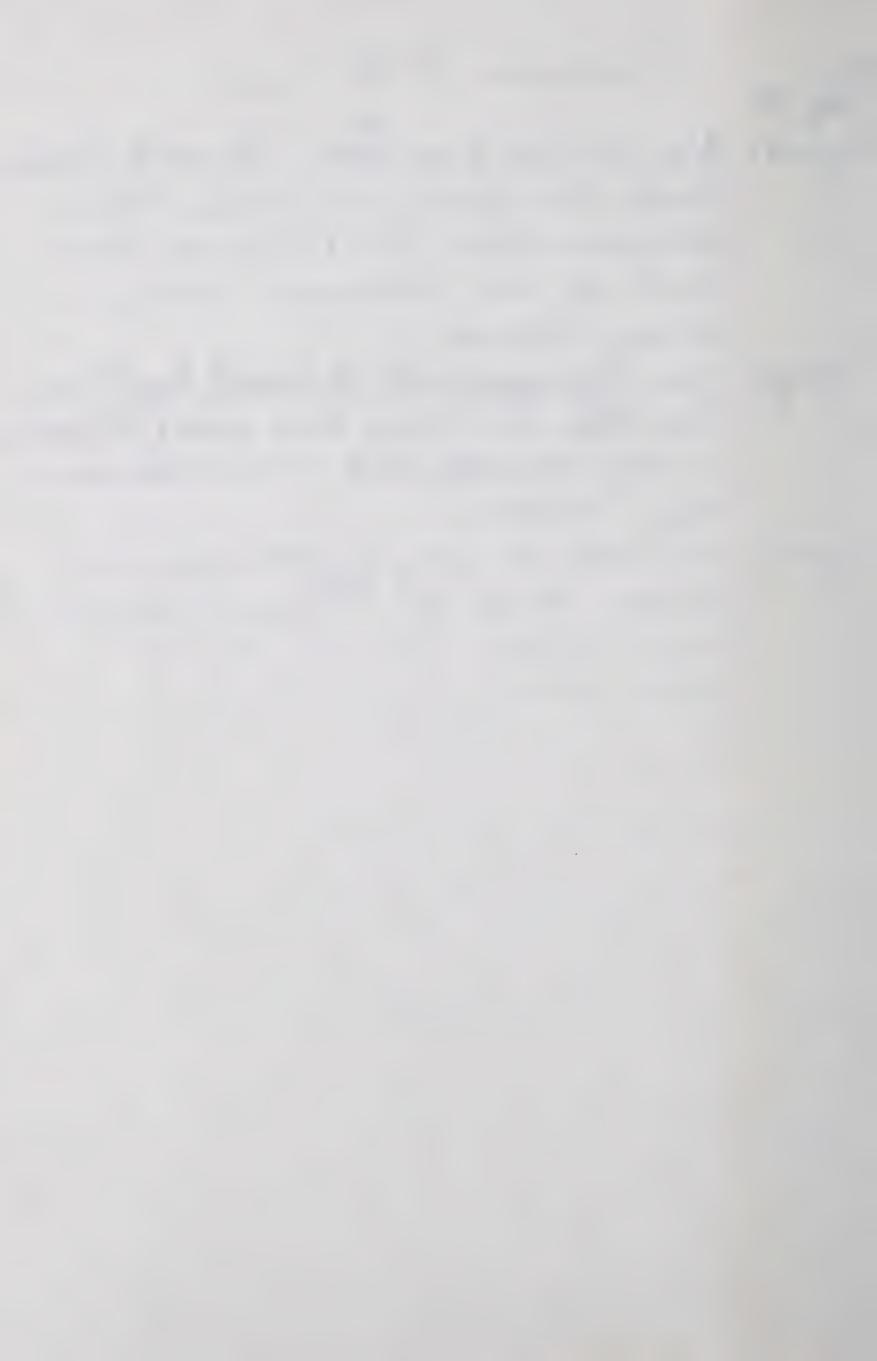


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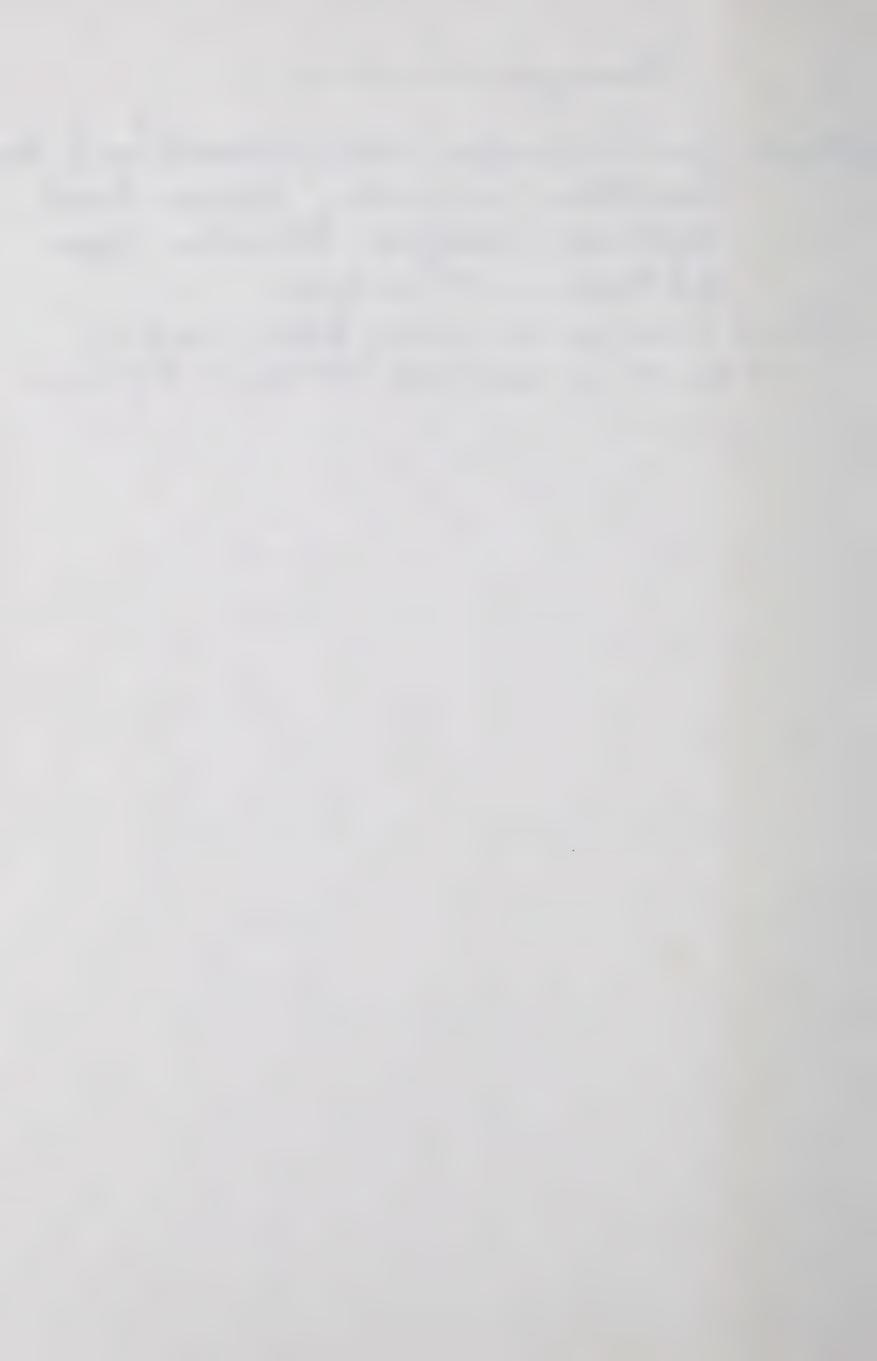
Peromyeus Manientains Three taken at edge of Cotton wood and sand area zond- On talsen in willows near rue was beny dark in Color -July 12th Mt Grant, Sappon Canyon 8900ft., Mineral Co. Nev. Took 18 m sage Trush, Dandy Dow and around rock outross. Kreetically all were Matine- The Coloration seems More ponstant and on the average is perhais Alightly daylen them those talsen at 03 mi?. Tung. July 13014 Three taken in first set and two on second day in the runnings of Mierotus Mortanus - in sels made La there latter annuals in the bog about July 15- Took Neven from traps out base of Cotton wood Prech, also in sage bush.



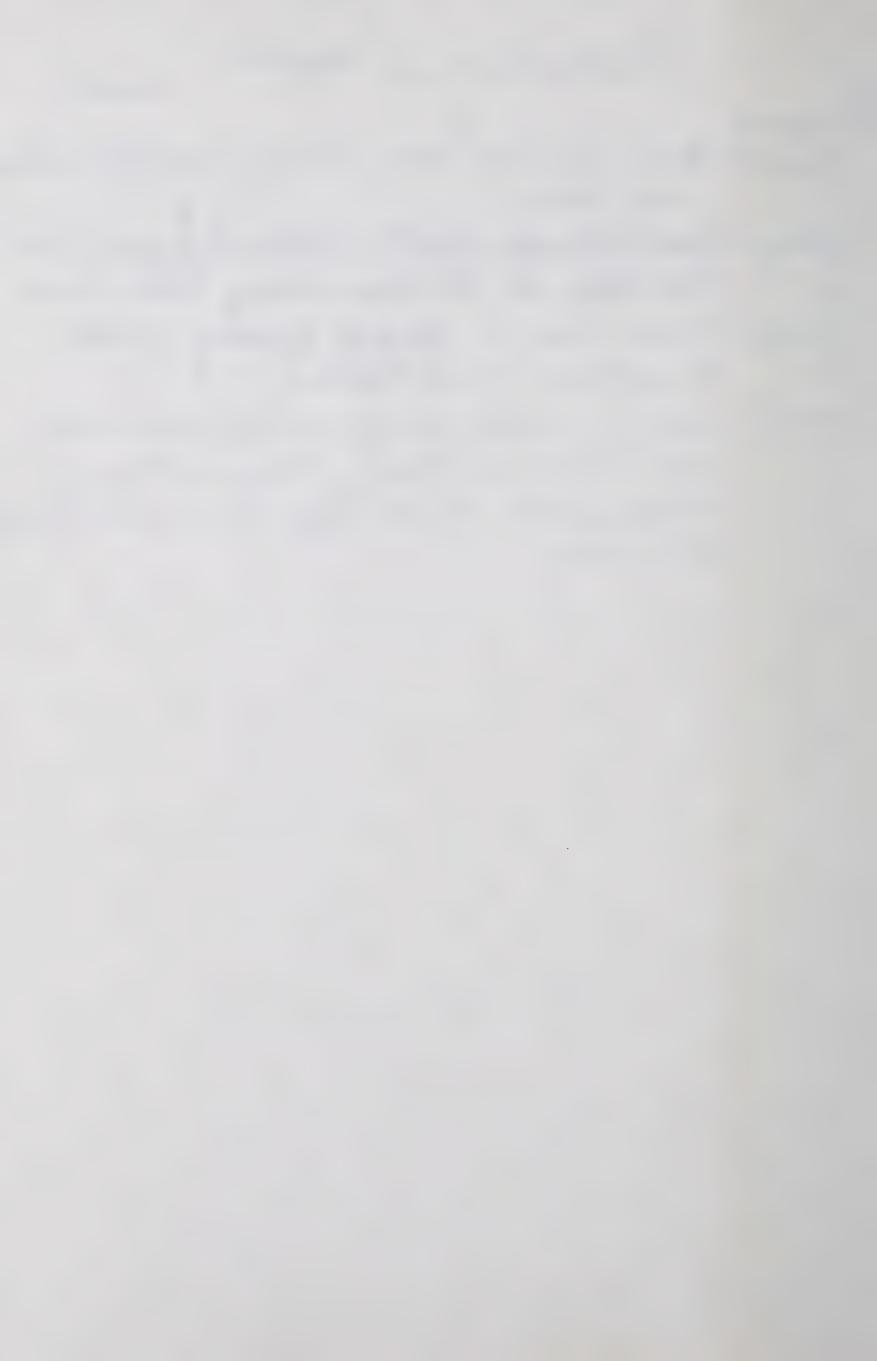
Edg 1934 Paromyseus truei June 28 3 mi. 2 W Pine Grove, 7800 Devada Caught two young on nocky hillside 5Wexposure 3 mi 5W Pine Grove-Sparce growth of low artemesia. 55 traps mi Various habitats July 2 12 mi. & Germaton 4600 ft., W. Walker R. Lyon Co. Nev. One taken in lower levels among atriplex in rather gravelly soil with occasional large bourders. July 8 two talsen at edge of Pollonwoods and Othipley sandy sold and 3mi & Shung 4100 Murera Po. nev. - Seem le Domewhat harten colored.



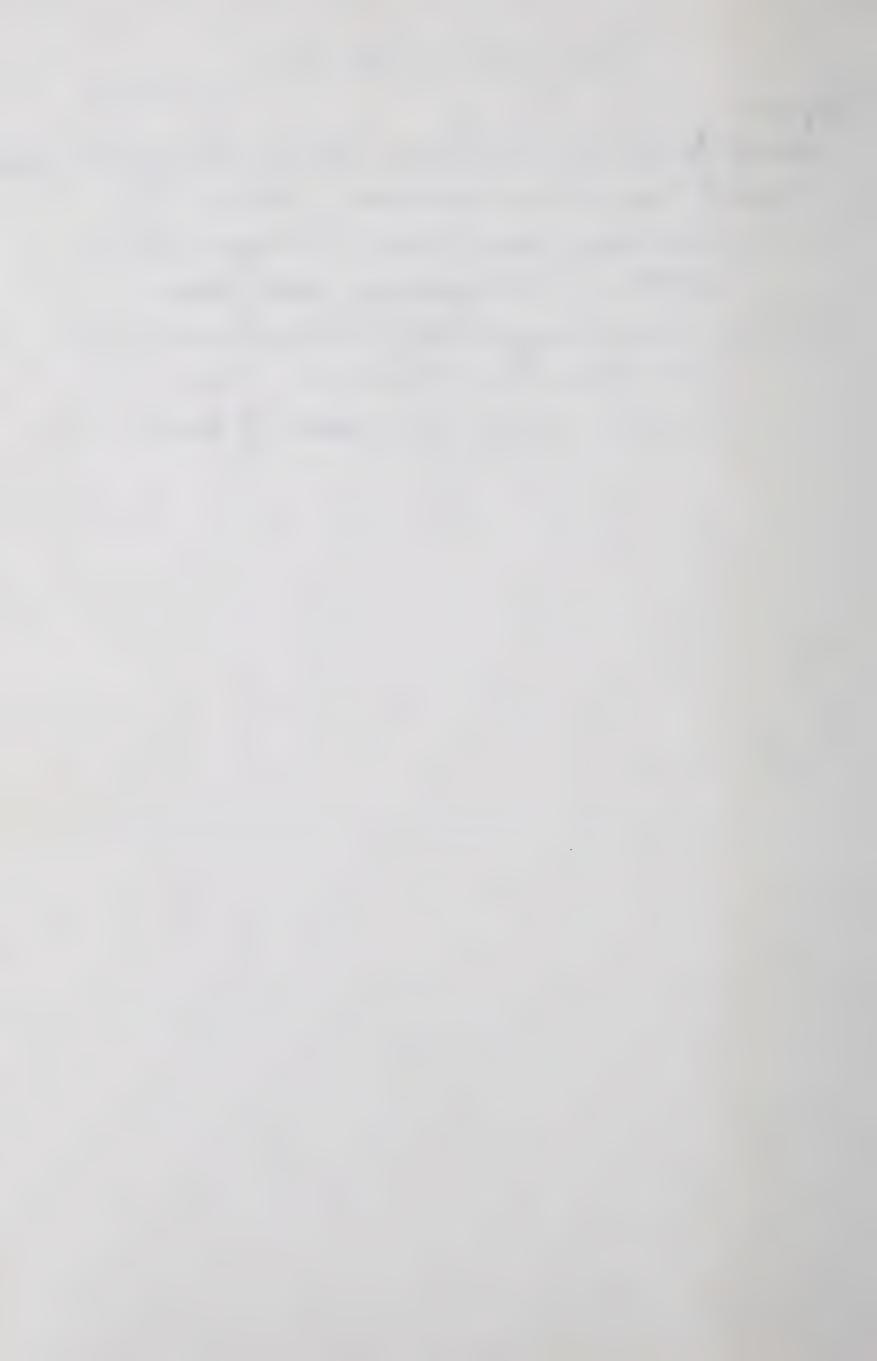
Peromyseus Crinitus ely 2, 12 mi & Merington, 4600ft, M. Walker R. Lyon Co., New.
Two taken on rocky bullside houth
of camp- scattered Otriplex. appy
20 traps in that area.
July 3. Took two on stony hidge last of
camp in scattered Otriplex + Ephedra.



Reithrodontomys megalotis June 28 2 mi. 5W Pine Grove, 7250ft. Mueral Po. Nevoda Novo taken July 2 12 mi & Merington, 4600 ft, W. Walker R. Lyone Co, New. July 3- Took three in damp grasky patch in willows - rever bottom. Took 2 10 mi S Germaton, 4 500 ft, Mason Valley, Lyon Co., Nev. on sandy ridge at edge of alfalfa frieds- mixed large Almels, part atripley 18 trap out.



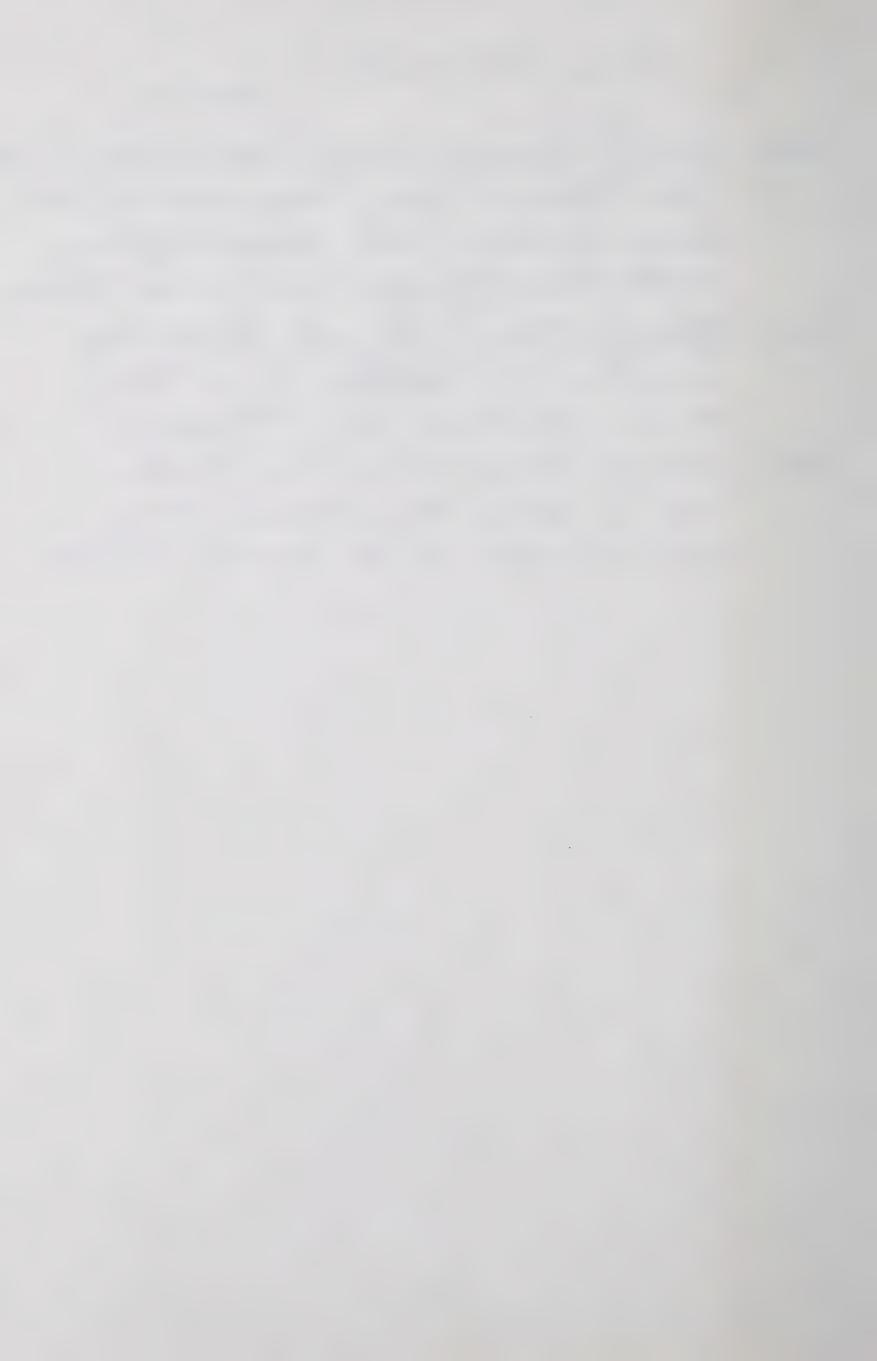
Verognathus Parvus. Olivaceus 60 ge 1934 June 28 2 mi. 5 W Pine Trove, 7250 ft., Muira B. Nevada June 30th Tooks 2 in relatively deuse tall artomesia near road - 44 traps in various halitats. Soil generally Dandy loam-July 12- Lapon Canyon, 8900 st., With Grant, Mineral Co., Now. Took three this morning in traps dot in arternisa - sandy soil, West of Damp- 4straps



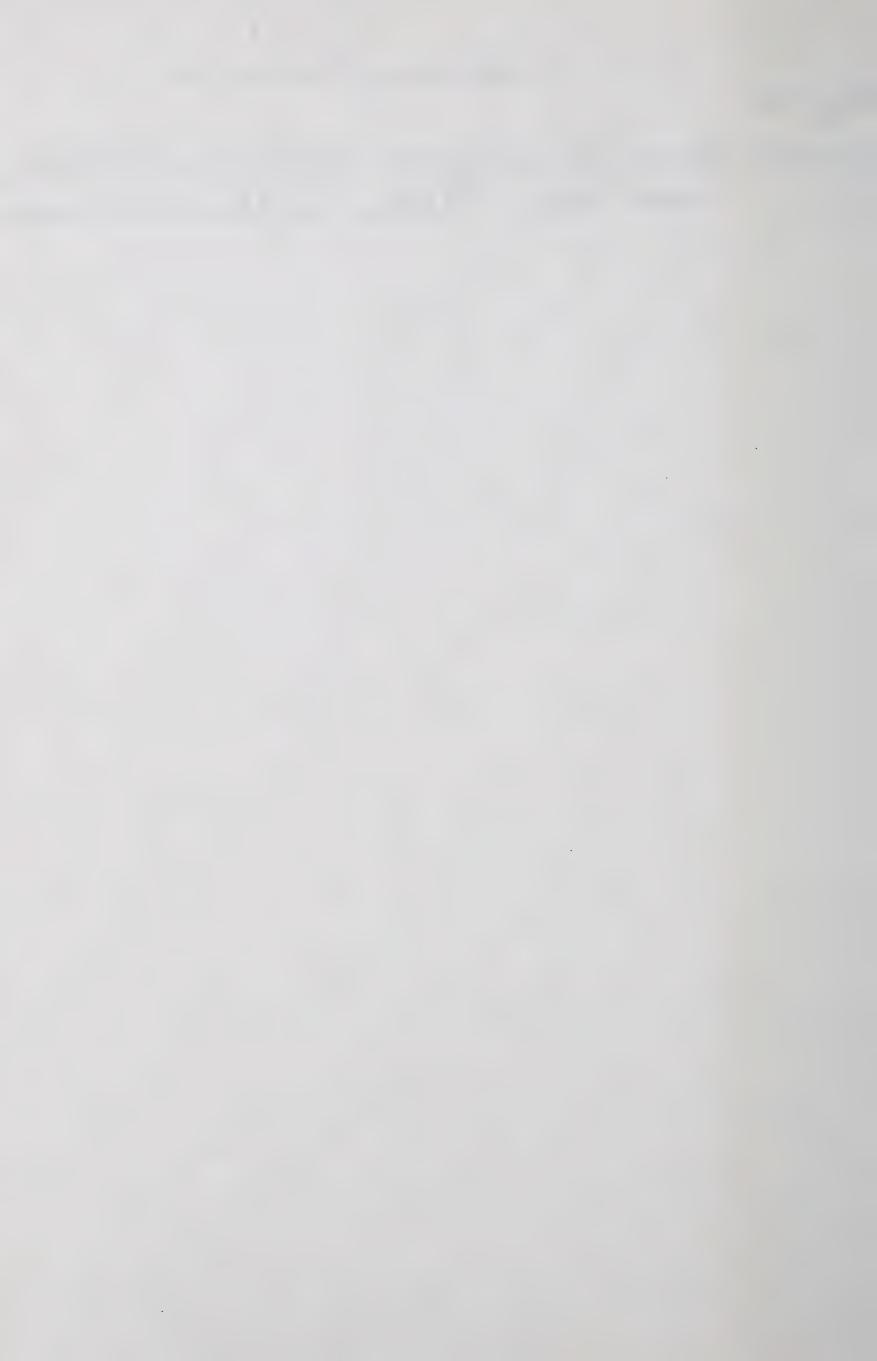
Perog. formosus Tedas July 2 12 mi. & Merington, 4600 ft, Lyon Co., Novada Took 3 on rocky hillside north of Damp - Scottered Alreplex. Apper 20 traps in that area. July 3 Took 2 in traps on rocky hillside east of camp- Exphedra bushes among the attriplex were best places appearently.



Perog. Longimentris-paramint. July3. 12 mi & Yermaton, 4600 ft, W. Walker Rodyon Co., less. under Ephedra bush-general begetation was scattered atruples and oceasional Exhedra July 4- 107 mi 5, 234 mi E Merington Wason Valley, Lyons Co., New. trook 2 mi Sandy draw - scattered low atriplex July 8 7 mi New Shung, 4500 H., Mureral Co. Nev. took to on : slope - darly rocks in sandy poil & atriplex rather hwarled. -45 traps.



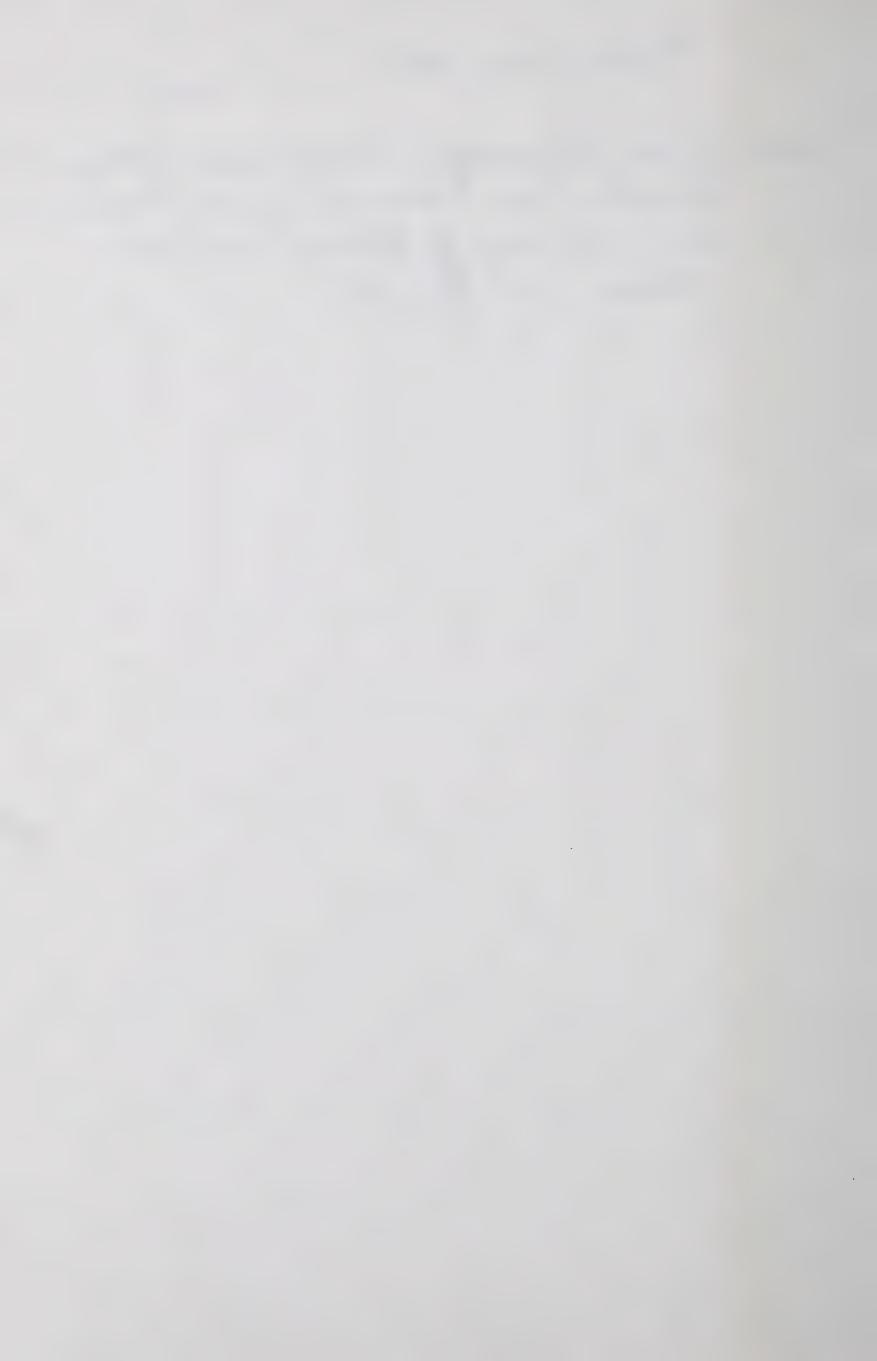
Dyrodomy Lencogemp-Edge 1931 June 28 2 mi SWPine Grove, 7250ft. Mueral Co. Nevadas More taken- Taken by others in Ortenesia



Dipodomys ordin

Columb)

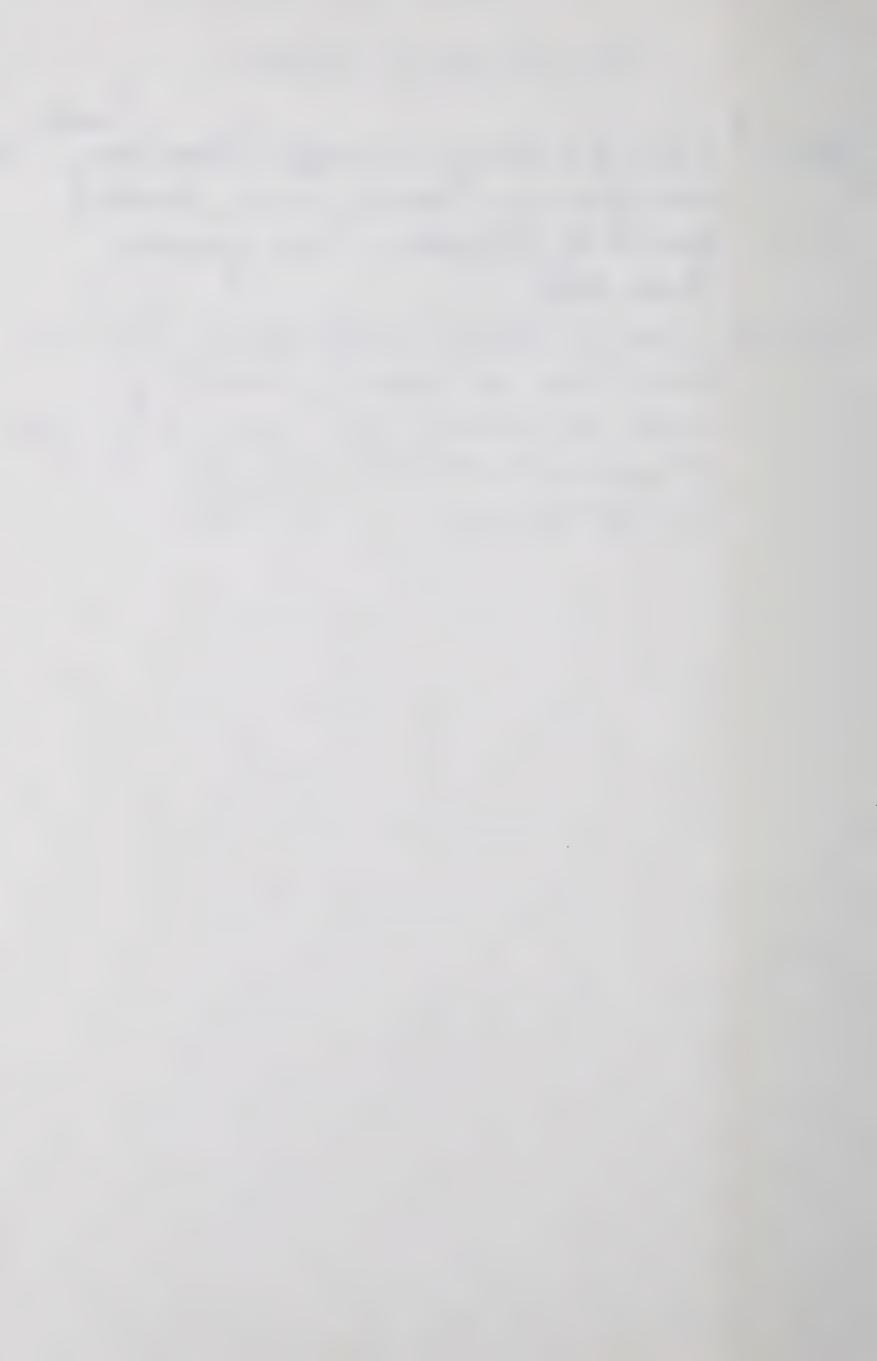
July 4 10 mi. Elferington, 4500 ft, Mason Valley, Lyons Co., New. Dive taken on Sandy More at edge of alfalfa held - tall Ahries part Atris,



Dyrodomy Merrami-July 4 11348 + 234 Emi. Herrigton Mason Valley, Lyons Co., Took two som sandy draw- scattered Julya, 3mi & Shung, 4100ft., Mineral Po., Nev. Took 7 in Sand nout of Pamp-Atriplex and Chrisothammis? of tall habit. Tracks and burnows are every where in the hopter sand. 35 trays.



Microdipodops pallidus. July 4th 1134mi 8, + 234 mi. E. Werington, Mason Valley, Nev.
Tooks from in Dandy draw- Scattered
agrowth of atriplex. - Soil generally
Loose Band. July 3 mi & Shung, 4100 ft, Mineral Co., New. Toola two in sandy country North of Camp and near R.R. tracks. irregular brit tall Atriplex and Chrysothammes. 35 traps



Wypodomys merops leurpe.

Mori M. Shur, 4500 ft., Mineral Co. Nev. Tooks 2 on Dandy slope Dolored darls by small block rocks - dwarf almalex July 8.

45 traps.



Callospermophilus lateralis Edge 1934

June 28 2 Mi- S.W. Pine Grove, 7250 ft. Meneral Co. New. One young & talsen in rock outcrop at top of ridge 50 of camp, in Pinons. 9 trap there July 12 Lapon Canyon, 8900 st., Mr Grant, Muneral Co., har That one young male on rock outerop just above placer mine Workings - Standing Regetation was Dage brush- Saw another at that fromt also -



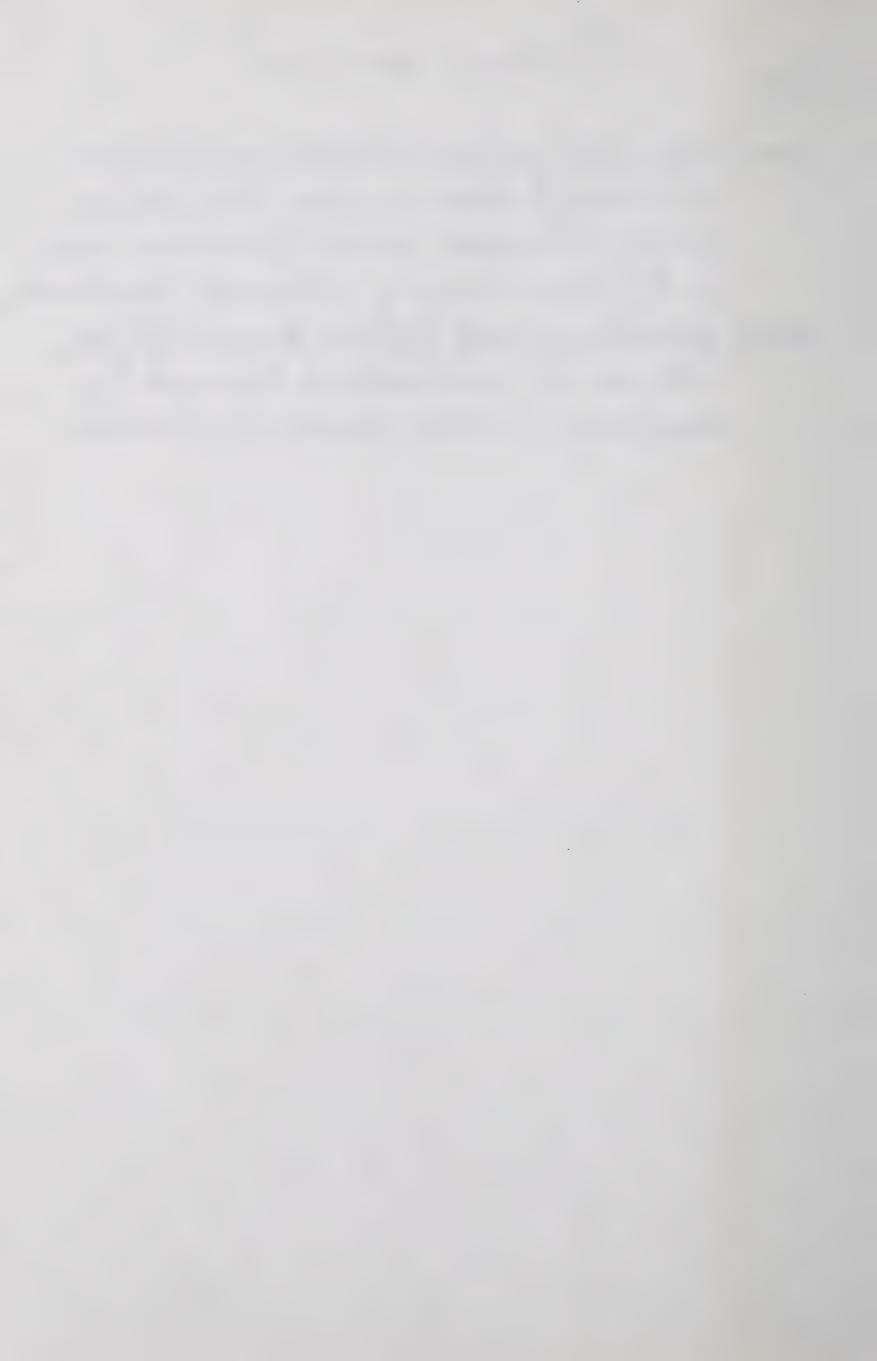
Estamias Minimus

June 28- 2mi S.W. Pine Srove, 7250 ft., Mineral B. Novada.

One young & taken in gully 5 W of Campamong arteriesia - several others were seen
in the same locality. 15 trap at that locality.

July 12 Lapon Panyon, 8900ft., Mt Brant, Mineral Co., New.

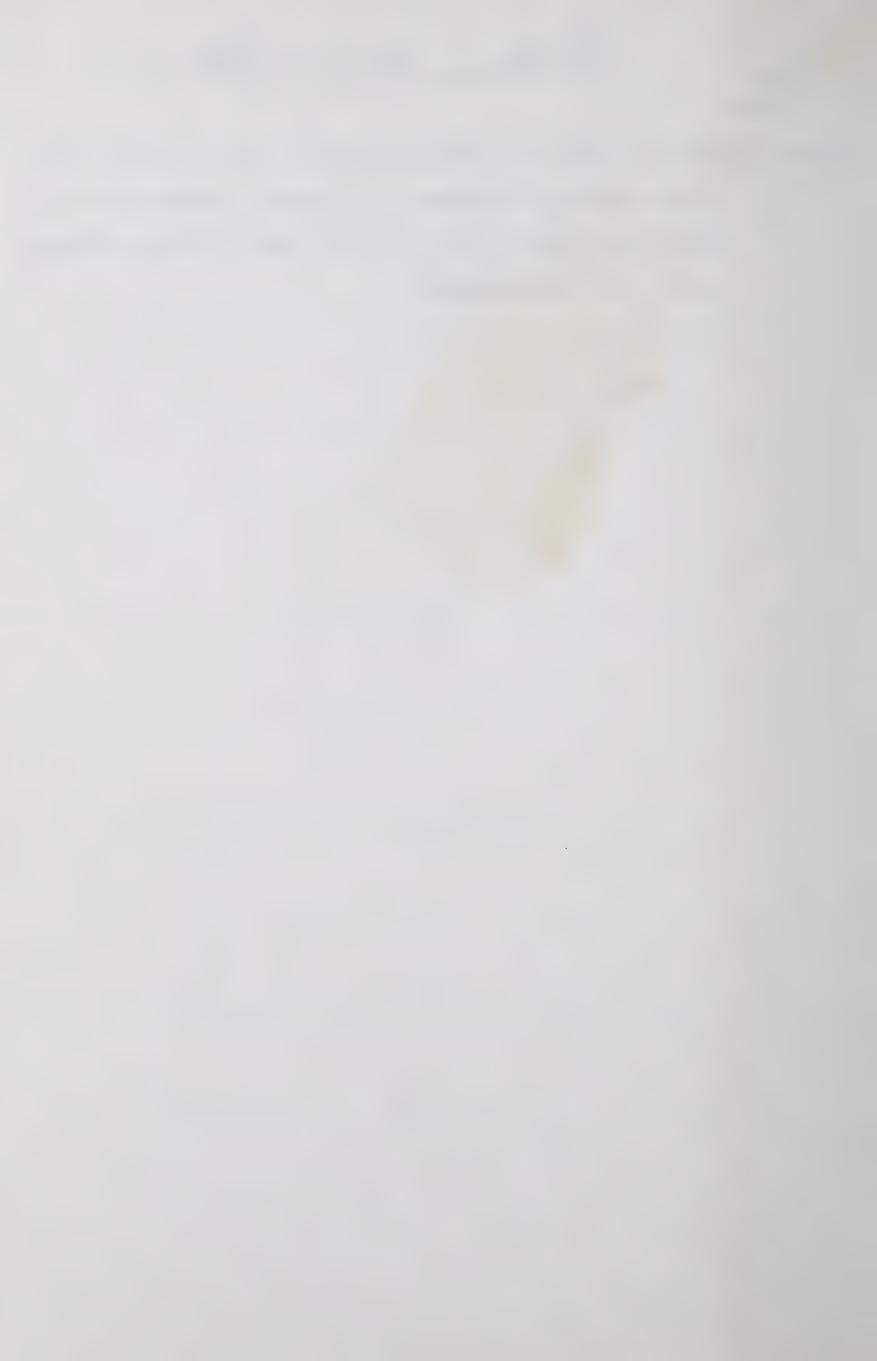
Tools one in rocks outerop Surrounded by
Lage brush- west of camp about 4 mile.



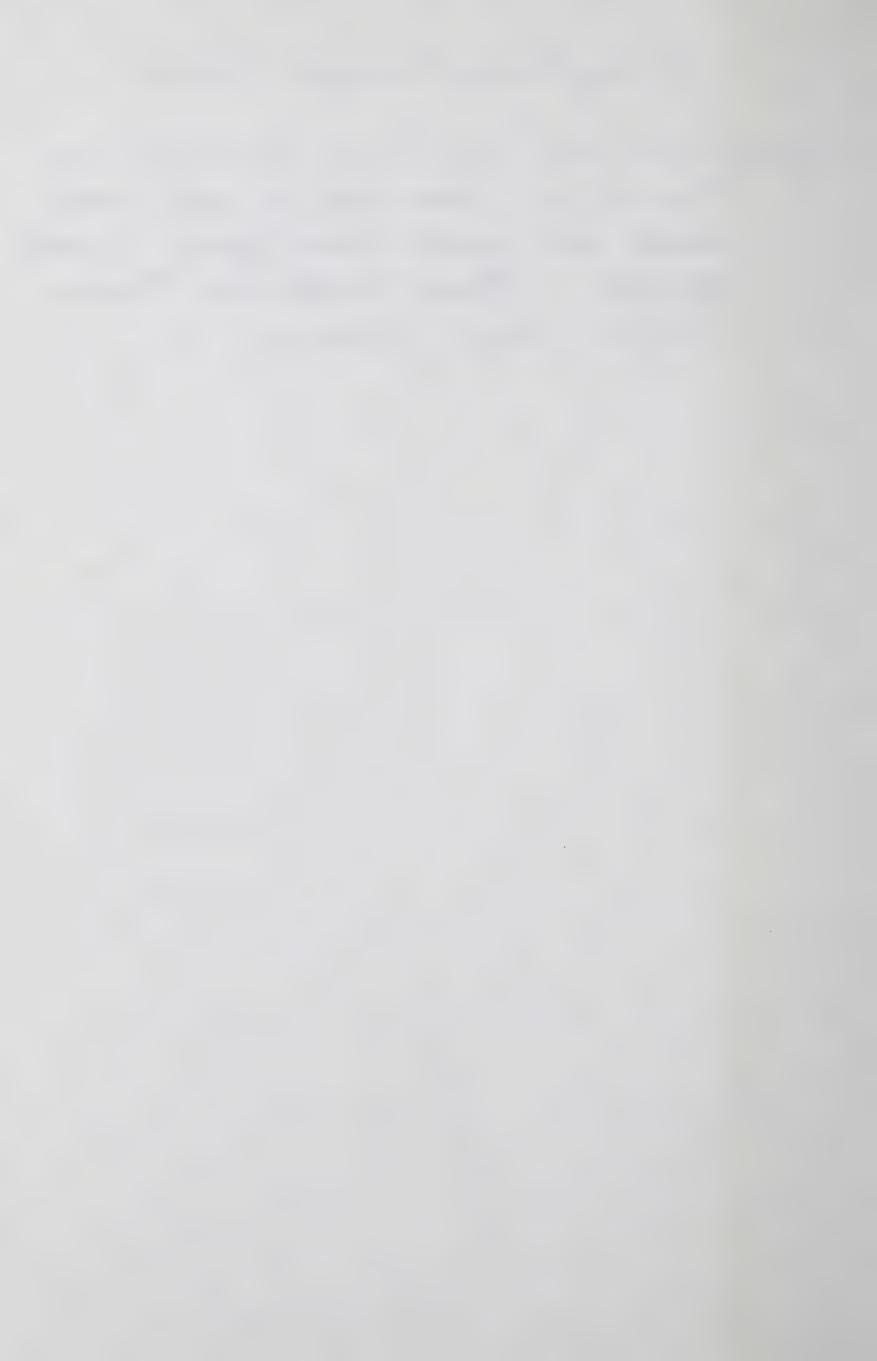
Gode Mort June 28

Eutamias quadriva tus

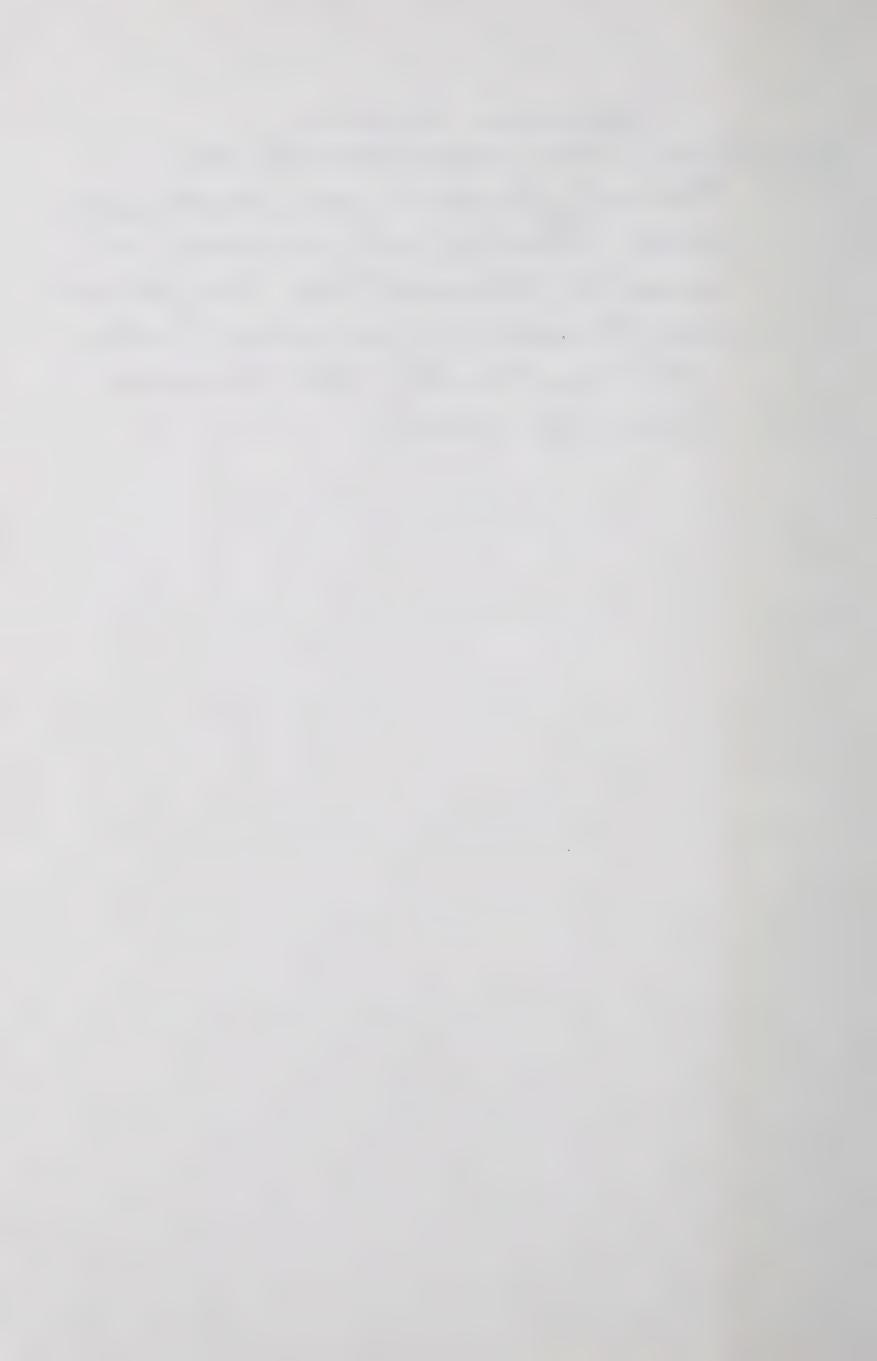
2 mi. 5 W Pine Grove 7250 ft. Mineral Co. New. One young & talsen in rock outerop near top of ridge 5. of Pamp in Pinons. 9 traps out at that point.



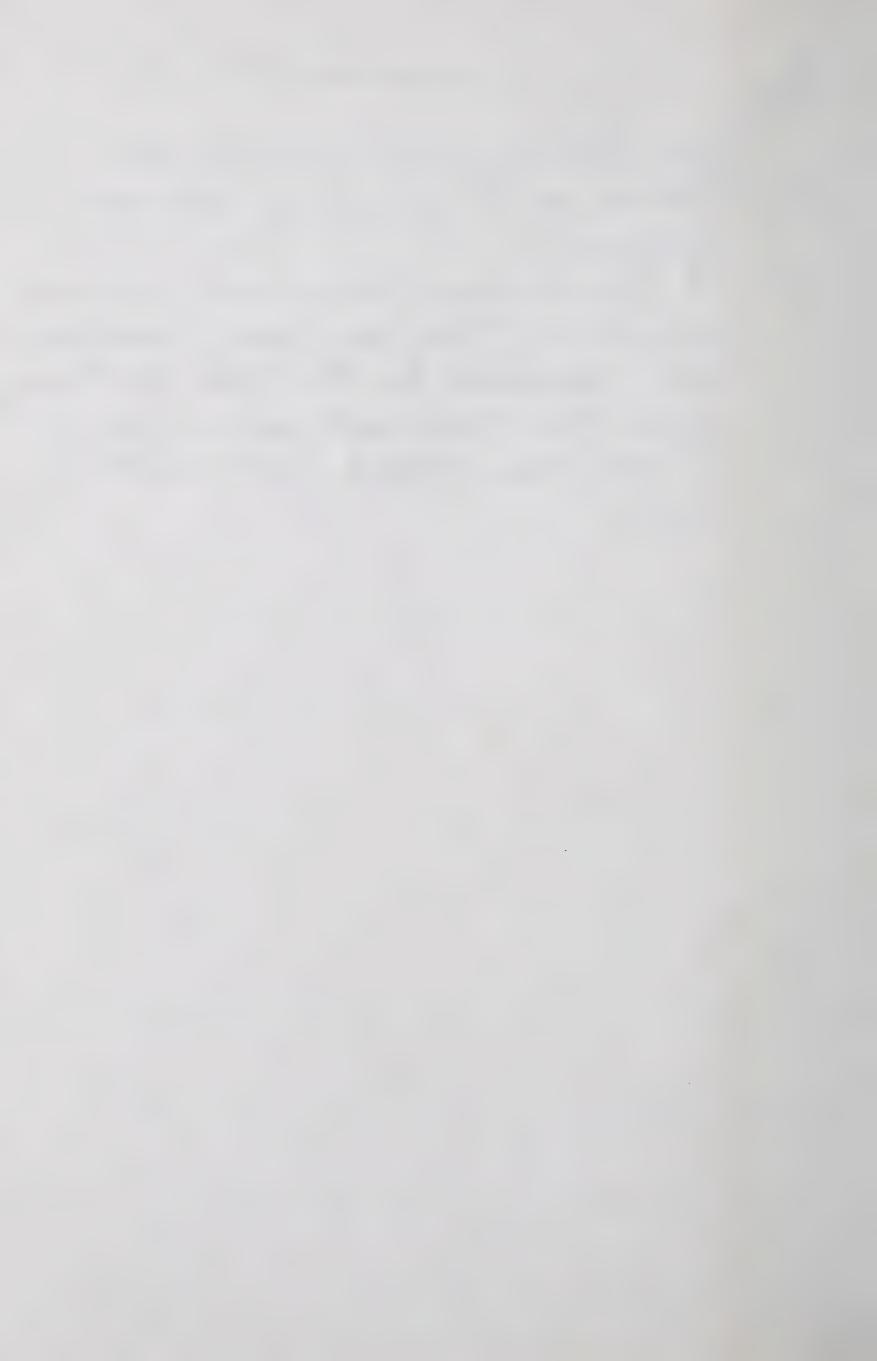
July 8. 7 mi nw. Thun, 400 lt., mineral to. Nev. Took ene on 1 est ride of road - Dand Muxed with small blocks gravel - dwarf atripley - exhound bloked west towards Trigher rudges. 45traps.



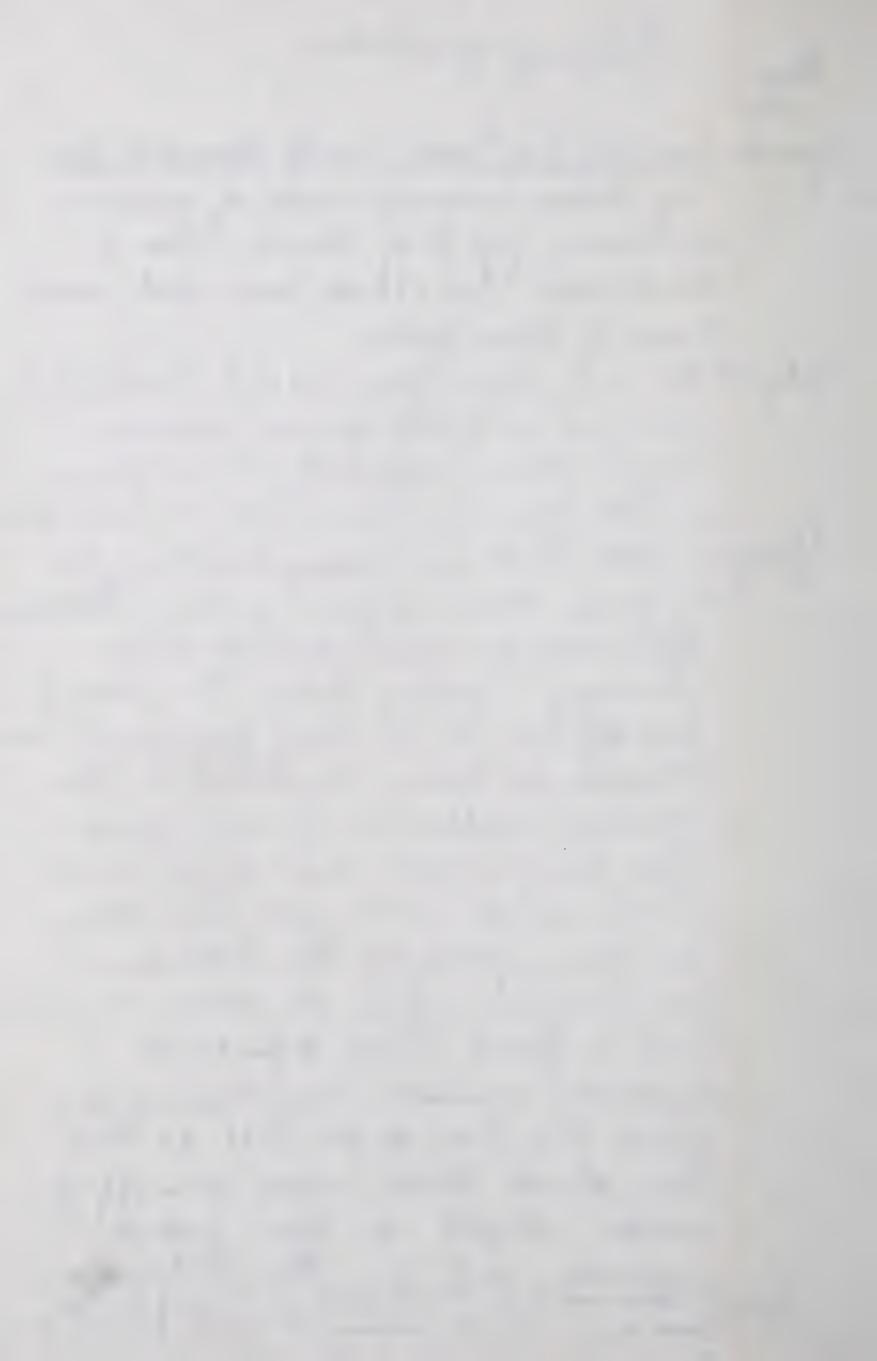
July 9, 3 mi. 2 Shurz, 4100ft., Mureral Co. New. Shot are flying around trees shortly after sunset - They are fairly rumerous here among the cotton wood trees and especially along the rurer - a few are out hunting well before sunset! Most numerous shortly after sunset.



Edge Ommospermophilus hucurus. July 8 Short one in Ottribley, sand helt mont. of camp. guy 10th Shot one near Cottonwood trees west here - especially on the road to Shung about two miles out where there is a barry or an alfaefa field wexto the road.



Thomomys quad ratus June 30 2 mi. SW I'me Drove, 725 Oft. Mueral Co. Nes. 29 talson in small patch of meadow at spring just N of karrip- I from 3 double sets. Soil-black loam with pural fices of broken nock-July 12th Met Grant, oakfon annon 5900 tt., Musial Co Nev. Took two in thick grassy meadow by the camp- ampressed me as being a little Province Han those at Pine grove. July 3- Tools three in grassy meadow SE of camp about 100 yds - 3 sets - Havepal of the mounds examined had three running leading from the Mound. soil stems to be very fine grained loam. Moundo are fairly numerous un the narrow meadow or band of grass that lies on each side of the small brooks which runs up the valley-In many places on the billrides in Ordeniesia files in prow runway Shuctures generally ran transversely across the Blops of the hill so that they should check rapid rum off of water. Noted a few recent July 15 Potton wood Creeks 1400 ft., Mt Grant, Minial Co., Nev. 150 yas south of Comp-Several other Workings noted there

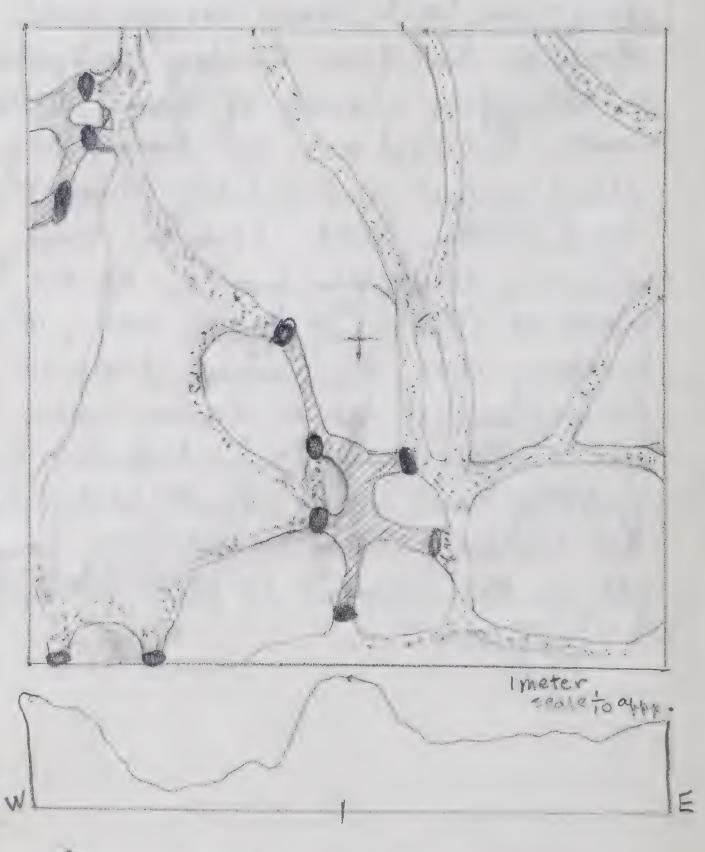


1934 Thomonys bottae July 10-3 mi. & Shung 4100 ft Muneial Co. New. Took three adults and one immatine along river bank about 200 yds west Ofcamp- Soil quite Danday Sufforting a straggling abouth of young bottonwoods - Burrous are in damp sand about a foot and a half above the rue water level. Took one more moved at 1 pm. It appears seems that breaking open the burnow disturbs
the animal if he is resting near-if her too far away to be distincted to probably list using that section of the burnow - as a result any long set in one burnow is not letiely to

be propiable?

Lapon Canyon 8900tt. Mt Shout.,
Microtus montanus

N:



Purchases and burners 31, to 4cm wide - both forther Changing level.

Open purchases, Attituded in hord of humans, Orange forthe Sources of Lucions, Orange forthe Sources of Lucions of Lucions Many places.

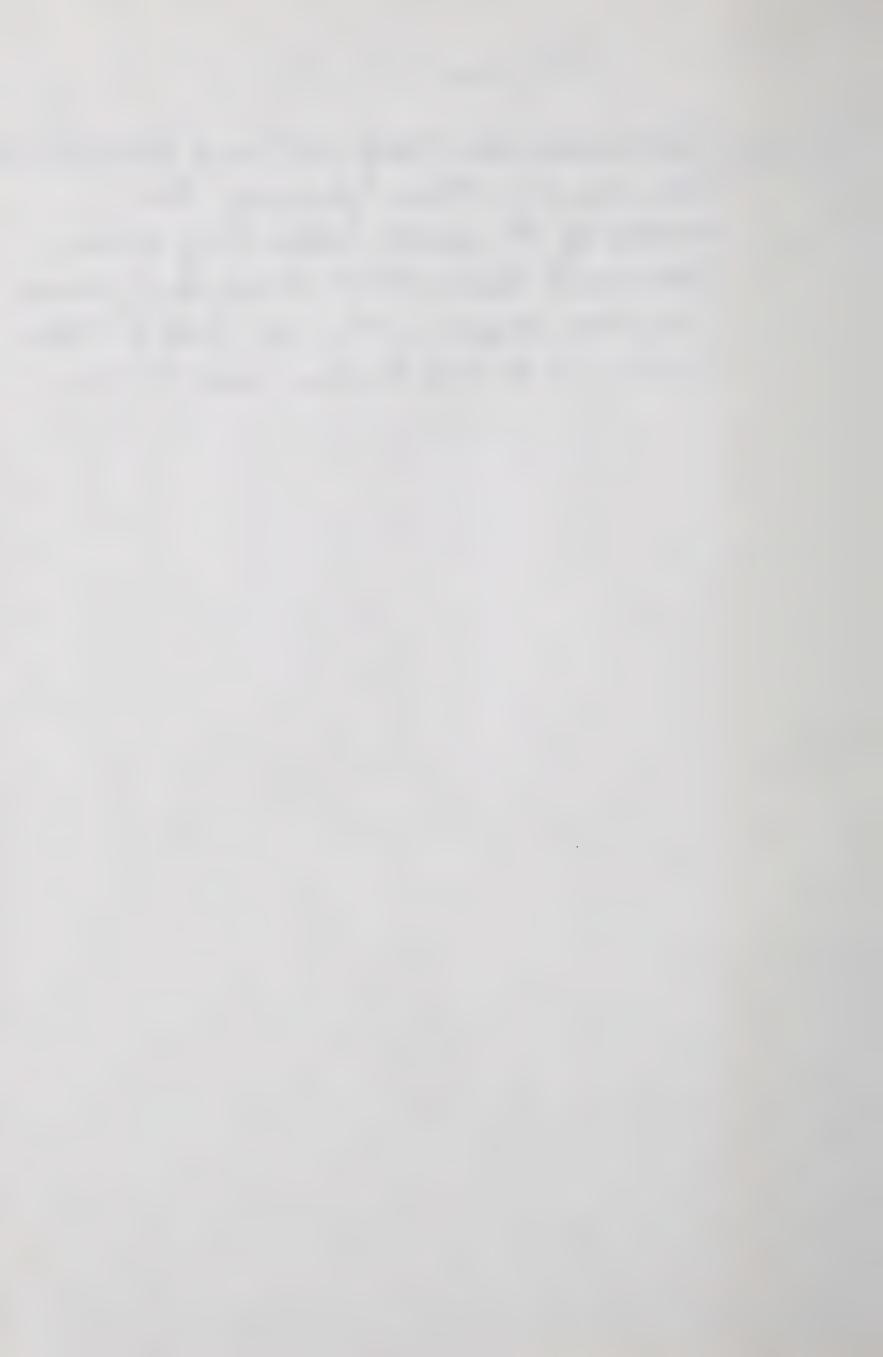
Orange End and turns other Many places.

Orange Ly Phelp - Grorr of Russians.

Microtus mon Tanus O faecoil pellet. July 13th Lapon Panyon 8900 p., Mt Grant., Mineral Co. Nes. Took Poive - 3 adults - 2 immatures from 27 gold traps set in bog about 150 Mards SE of the Camp - There are Municipal tussoclss or mounds thru which burrous run and letween which the burrows run- out grass and facces are common in the runnians - The more frequency used runways appear to be those not saturated with which causes the light dried out. The supage which causes the light the base of the hill - Nand & for about 100 yards - artimesia starts unnedictely am & the seepage line -July 14 made Shotch of Aq. meler of typical runways land burrous-(balla apposite page) Found a little dried grass in Central burnowpressed specimen of same - it is the Common grass around the runways-Unumber of our mande duy open but only is ourle of thin grass linear found - all found had two or More offenings. Haces appeared to be accumulated in Certain spots as the the animals might have had a definite place for this purpose.



Tools one in a trap placed in the middle of the small breks that enters Potton word breks about 150 yes & of camp Trap was about 1 way up first E Slope, willows and rose bushes lined boulss -



Edge 1934

Nextorna Cinerea

July 5th Cottonwood Creek 7400ft., Mit Snaw, Musical E., New.
Took two in 4 tract traps set in Trocks
slide immediately I of Camps on the
W Alopae - Noted a muncles of openings
between the rocks were there was
fatches of the white + green minary?
deposits and a considerable amount of
frances.

